



भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित
PUBLISHED BY AUTHORITY

सं० 18] नई दिल्ली, शनिवार, मई 6, 1989 (वैशाख 16, 1911)
No. 18] NEW DELHI, SATURDAY, MAY 6, 1989 (VAISAKHA 16, 1911)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
Separate paging is given to this Part in order that it may be filed as a separate compilation

भाग III—खण्ड 2

[PART III--SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE
PATENTS AND DESIGNS
Calcutta, the 6th May 1989

Patent Office Branch,
61, Wallajah Road,
Madras-600 002.

Telegraphic address "PATENTOFIS".

ADDRESS AND JURISDICTION OF OFFICES OF THE PATENT OFFICE

The Patent Office has its Head Office at Calcutta and Branch Offices at Bombay, Delhi and Madras having territorial jurisdiction on a zonal basis as shown below :—

Patent Office Branch,
Todi Estates, III Floor, Lower Parel (West),
Bombay-400 013.

Telegraphic address "PATOFFICE".

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Patent Office Branch,
Unit No. 401 to 405, III Floor,
Municipal Market Building,
Saraswati Marg, Karol Bagh,
New Delhi-110 005.

Telegraphic address "PATENTOFIC".

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

The States of Andhra Pradesh, Karnataka, Kerala, Tamilnadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Amindivi Islands.

Patent Office (Head Office),
"NIZAM PALACE", 2nd M.S.O. Building,
5th, 6th and 7th Floor,
234/4, Acharya Jagadish Bose Road,
Calcutta-700 020.

Telegraphic address "PATENTS".

Rest of India.

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Fees :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

ALTERATION OF AN ENTRY IN THE REGISTER OF PATENT AGENTS UNDER RULE 103 OF THE PATENTS RULES, 1972

In pursuance of an application on Form 52 the address for service of Shri A. P. Japee has been altered to :-

3, Brightons Road,
Kanikapuram,
P. Box 970,
Madras-600 012.

GOVERNMENT OF INDIA THE PATENT OFFICE

Calcutta, the 6th May 1989

APPLICATION FOR THE PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-700 020.

The dates shown in the crescent brackets are the dates claimed under section 135, of the Patents Act, 1970.

The 30th March 1989

- 244/Cal/89. Protap Kumar Ghose and Pinaki Prasad Ghosh. A multiple-cylinder telescopic jack for applying a uniform thrust at a constant rate of opening.
- 245/Cal/89. Institut Morfologii Cheloveka Akademii Meditsinskikh Nauk Sssr, Mezhotraslevoi nauchno-tekhnichesky kompleks "mikrokhirurgia glaza" and Nauchno-Proizvodstvennoe obiedinenie "Bioler" Akademii Nauk SSSR. Method of preparing a mixture of ribonucleotides.
- 246/Cal/89. Roads & Traffic Authority. Vehicle inspection Trailer. (Convention date 31-03-88) Australia.

The 31st March 1989

- 247/Cal/89. Emerson Electric Co. Minimum height motor assembly using aluminum endshields.
- 248/Cal/89. Emerson Electric Co. Electric motor mounting assembly.

The 3rd April 1989

- 249/Cal/89. United Catalysts Inc. Process for preparation of low temperature shift catalyst.
- 250/Cal/89. Beloit Corporation. Flight arrangement for rotary drum dryers.
- 251/Cal/89. Zenith Electronics Corporation. Methods and systems for transmitting and receiving high definition television signals.
- 252/Cal/89. Westinhouse Electric Corporation. Improvements in or relating to optically coupled remote sensor apparatus and system.
- 253/Cal/89. United Parcel Service of America, Inc. Hexagonal information encoding article, process and system.

The 4th April 1989

- 254/Cal/89. Smit Offshore Contractors B. V. Method for thermal insulation of pipeline bundless under water and pipelines insulated in this way.
- 255/Cal/89. E. I. Du Pont De Nemours & Company. System for preparing highly coherent air jet textured yarn.
- 256/Cal/89. Lummus Crest Inc. Alkylation of benzene in a moving bed.
- 257/Cal/89. Boliden Allis, Inc. Seal for rotating cylinders such as kilns and the like.

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, THIRD FLOOR, KAROL BAGH, NEW DELHI

The 1st March 1989

- 185/Del/89. Council of Scientific & Industrial Research, "Improvements in or relating to blue emitting europium activated alkaline earth fluoro halide phosphors for computer radiographic imaging".
- 186/Del/89. The commonwealth of Australia & The northern territory of Australia Industries Development Department, & Bent Back. "An apparatus for sowing seed". (Convention date 4th March, 1988) (Australia).
- 187/Del/89. The commonwealth of Australia & The Northern territory of Australia, & Bent Back, "A harvesting apparatus". (Convention date 4th March, 1988) (Australia).
- 188/Del/89. Balcke-Durr Aktiengesellschaft, "Process for welding tubes and stays to make a gas tight tube well".

189/Del/89. Metal Closures Ltd., "Closures for containers".

190/Del/89. Ardent Computer Corporation, "Bus arbitration method and apparatus".

191/Del/89. Ardent Computer Corporation, "Vector register file".

The 2nd March 1989

192/Del/89. Tomsky Gosudarstvenny Universitet Imeni V. V. Kuibysheva, "Polymerizable composition for producing luminescent and selectively light-absorbing materials".

The 3rd March 1989

- 193/Del/89. S. K. Sharma, "Solar space cooling system".
- 194/Del/89. Dharam Paul Jindal and Mange Ram Yadav, "A process for the preparation of 17a-methyl-4-oxo-5a-androstano (2, 3-d) pyrazol-17-Ol".
- 195/Del/89. Thanjavur Rajagopalan Jayaraman, "A water tap".
- 196/Del/89. National Research Development Corporation, "Process for preparation of a solid surface with coenzyme and immobilized thereon".
- 197/Del/89. Johnson & Johnson GmbH., "A method for manufacturing tampons, and a tampon".
- 198/Del/89. Johnson & Johnson GmbH., "A method for manufacturing tampons, and a tampon".
- 199/Del/89. Bhaskara M. I. Rao & Others, "Illuminated fishing lure and battery thereof".
- 200/Del/89. Colgate-Palmolive Co., "A powdery or granular detergent composition". [Divisional date 2nd July, 1986].
- 201/Del/89. Parke Davis Pty. Ltd. & Other, Acne treatment". (Convention date 3rd March, 1988 & 20th December, 1988) (Australia).
- 202/Del/89. Solvay & Cie, "A method of preparing an antigenic protein or polypeptides derived from cimeria tennella". [Divisional date 1st December, 1986].

The 6th March 1989

- 203/Del/89. Sultan Singh Jain, "A tap removal self-closing socket".
- 204/Del/89. Ashok Kumar Gupta and A. K. Mallik, "A triangular plate attachment to prevent sand bed erosion (local scour) from around the river bridge piers".

- 205/Del/89. R. C. Goyal. "An improved brush".
- 206/Del/89. STC PLC., "Multiplexer". (Convention date 19-3-88) (U.K.).
- 207/Del/89. Basf Lacke + Farben Aktiengesellschaft, "Process for the preparation of polyester resins".
- 208/Del/89. W & T Avery Ltd., "Weighing apparatus". (Convention date 27th April, 1988) (U.K.).
- 209/Del/89. Colgate-Palmolive Co., "Toothbrush with slow release of disinfectant and anti-bacterial agents and method of manufacturing the same".
- 210/Del/89. Institut Elektrosvarki Imeni E. O. Patona Akademii Nauk Ukrainskoi SSR. & Others, "Apparatus for investigating parameters of development of surface cracks".
- 211/Del/89. Hans Alfred Bauer, "Intra-uterine pessary".
- 212/Del/89. FBI Brands Ltd., "Method of providing shelf stable liquid food products and container for use therein". (Convention date 11th March, 1988) (Canada).

The 7th March 1989

- 213/Del/89. Pfizer Hospital Products Group, Inc., "Compression anastomosis coupling assembly".

The 8th March 1989

- 214/Del/89. Pfizer Inc., "A process for the preparation of phosphodiesterase inhibitor antidepressant". [Divisional date 11th February, 1987].
- 215/Del/89. Pfizer Inc., "A process for the preparation of phosphodiesterase inhibitor antidepressant". [Divisional date 11th February, 1987].
- 216/Del/89. Pfizer Inc., "A process for the preparation of phosphodiesterase inhibitor antidepressant". [Divisional date 11th February, 1987].

The 9th March 1989

- 217/Del/89. Motorola, Inc., "Frequency synthesizer with spur compensation".
- 218/Del/89. Imperial Chemical Industries PLC., "Method of detecting nucleotide sequences". (Convention date 10th March, 1988 and 15th June, 1988) (U.K.).
- 219/Del/89. Imperial Chemical Industries PLC. & Other, "Optical or magneto optical data system".
- 220/Del/89. Future Power Inc., "Rotating cylinder block piston-cylinder engine".

The 10th March 1989

- 221/Del/89. Acumeter Laboratories, Inc., "Method of streakless application of thin controlled fluid coatings and slot nozzle roller coater applicator apparatus therefor".
- 222/Del/89. Saurabh N. Kinaiwala, "A card can".
- 223/Del/89. Indian Institute of Technology, "Weighing machine".
- 224/Del/89. Nauchno-proizvodstvennoe obiedinenie tekhnologii traktornogo i selskokhozyaistvennogo Mashinostroeniya npo "Nitraktoroselkhoz mash", "Method for cleaning ferromagnetic chip from a lubricant coolant and an apparatus for carrying out the method".
- 225/Del/89. Imperial Chemical Industries PLC., "A process for the preparation of ethylene oxide". (Convention date 31st July, 85 and 6th June 1986) (U.K.). & [Divisional date 9th July, 1986].

- 226/Del/89. Orbital Sciences Corporation, "Rocket-powered, air deployed, lift-assisted booster vehicle for orbital, supraorbital and suborbital flight".
- 227/Del/89. Everett Douglas Houglen, "Annular cutter having radial clearance".
- 228/Del/89. Exxon Chemical Patents, Inc., "Process for reforming a hydrocarbon fraction with a limited C₁₀ + content".
- 229/Del/89. Exxon Chemical Patents, Inc., "Process for the dispersion of group VIII metals in large pore zeolite catalysts".
- 230/Del/89. Exxon Chemical Patents, Inc., "Process for reforming a dimethylbutane-free hydrocarbon fraction".

APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002.

The 20th March 1989

- 210/Mas/89. Narendra Ghorpade; Vankipuram Ramamurthy Ramathnam; Vijiy Ghorpade and Smt. Sreepriya Srinivasan. An improved flushing cistern.
- 211/Mas/89. Venkataraman Chandrashekar. A multi-filament fluorescent lamp with selection switch.
- 212/Mas/89. K. A. Ranghachary. Solar energy aided mobile gobar gas generator.
- 213/Mas/89. Lakshminarayanapuram Gopala Iyer Vaidyanathan. Preparation of water-soluble modified melamine-formaldehyde resins.
- 214/Mas/89. GEC Plessey Telecommunications limited. Telecommunications apparatus. (March 24, 1988; United Kingdom).
- 215/Mas/89. Stern & Leonard Associates. Variable ratio drive mechanism.
- 216/Mas/89. A Ahlstrom Corporation. Method and apparatus for reduction of material containing metal oxide.

The 21st March 1989

- 217/Mas/89. Dr. S. I. Kampli. A process for preparing a engine fuel, having properties of increasing running time and decreasing exhaust and sound of engine.
- 218/Mas/89. Linde Aktiengesellschaft. Base element as growth area for biomass.
- 219/Mas/89. Maschinenfabrik Rieter AG. An apparatus for delivering a textile fibre web.
- 220/Mas/89. Etablissement Gersan. A feeder for feeding discrete objects. (August 9, 1984; Great Britain) (Divisional to Patent Application No. 579/Mas/85).
- 221/Mas/89. Etablissement Gersan. A primary feeder for feeding discrete objects. (August 9, 1984; Great Britain) (Divisional to Patent Application No. 579/Mas/85).
- 222/Mas/89. Mobil Oil Corporation. Production of high octane gasoline.
- 223/Mas/89. Kandaswamy Chettiar Suryanarayanan. A device for oscillating ceiling fans.
- 224/Mas/89. University of New Mexico. Differential surface roughness dynamic seals and bearings.
- 225/Mas/89. Institut Francais Du Petrole. Process for selective catalytic hydrogenation in liquid phase of a normally gaseous feed containing ethylene, acetylene and gasoline.

226/Mas/89. Bavsa Seventy-fifth Pty. Ltd. Hypodermic needle retractor (March 23, 1988; Australia).

227/Mas/89. British Telecommunications plc. Call traffic control. (March 21, 1988; United Kingdom).

The 22nd March 1989

228/Mas/89. Hagglunds Denison Corporation. Automatic control for variable displacement pump.

229/Mas/89. Lancet S. A. Domestic food cooking apparatus.

The 23rd March 1989

230/Mas/89. Dr. Mohan K. Abraham Kunnath. Mohan's urethral valvotome.

231/Mas/89. Pharmacia-ENI Diagnostics, Inc. Automatic Reagent Dispenser. (February 28, 1989; United Kingdom).

232/Mas/89. GEC Plessey Telecommunications Limited. Frequency clock synchronisation. (April 21, 1988; United Kingdom).

233/Mas/89. Pullarot Krishna Das. A self-sealing safety valve for low pressure gas systems.

234/Mas/89. Maschinenfabrik Rieter AG. A travelling service device servicing operating stations of a yarn processing machine. (Divisional to Patent Application No. 977/Mas/85).

235/Mas/89. Mannesmann Aktiengesellschaft. A plant for the production of hot-rolled steel band.

ALTERATION OF DATE

164667 Anti-dated to 2nd June, 1983.
(4/Cal/87).

164680 Anti-dated 1st October, 1986.
(70/Bom/88).

APPLICATIONS FOR PATENTS FILED IN THE PATENT OFFICE BRANCH AT TODI ESTATE, THIRD FLOOR, SUN MILL COMPOUND, LOWER PAREL (W), BOMBAY-13

The 7th March 1989

59/Bom/89. Mohan Mahadev Gupta. Improved cleaning brushes.

The 9th March 1989

60/Bom/89. Taraprakash Prabhakar Vartak and Others. A process for treatment of organic-rich effluents using semi-permeable membranes so that prior or subsequent effluent treatment methods can become more easy, suitable, economical or effective.

The 10th March 1989

61/Bom/89. Dara Cawasji Poonawala. Projecting a special beam of auto light.

CLAIM UNDER SECTION 20(1) OF THE PATENTS ACT, 1970

The claim made by Hans-blich van der Eliz and Peter Oppitz under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 163761 in their name has been allowed.

The claim made by Ostermann Metallwerke & Co. under Section 20(1) of the Patents Act, 1970 to proceed the application for Patent No. 163195 in their name has been allowed.

PATENTS SEALED

157590	162624	162638	162872	162971	163105	163107
163115	163121	163183	163213	163214	163226	163228
163230	163232	163301	163302	163303	163305	163313
163314	163315	163320	163351	163352	163353	163354
163356	163358	163359	163361	163362	163363	163364
163366	163367	163368	163389	163445.		

CAL — 16

MAS — 13.

DEL — 10.

BOM — 1.

RENEWAL FEE PAID

144398	144823	145461	145851	146044	146241	146274
146604	147483	147814	148072	148106	148333	148481
148679	148735	149090	149136	149394	149821	149832
149884	149954	150187	150256	150269	150454	150461
150490	150860	150912	150939	151073	151207	151257
151295	151420	151430	151436	151551	151668	151827
152078	152181	152559	152647	152782	152928	152947
153251	153477	153532	153702	154113	154156	154158
154159	154209	154251	154271	154606	154783	154832
154896	155198	155605	155698	155873	155961	155982
155983	155689	156078	156102	156140	156173	156321
156346	156473	156501	156526	156633	156750	156918
156942	156948	157028	157040	157193	157232	157341
157473	157653	157654	157720	157829	158022	158073
158417	158541	158593	158638	158640	158643	158667
158721	158747	158759	158760	158767	158770	158831
158836	158950	159009	159036	159153	159154	159222
159268	159294	159487	159773	159843	159846	159847
160131	160133	160306	160307	160318	160498	160499
160501	160591	161019	161022	161087	161114	161301
161320	161335	161540	161691	161764	161957	161959
161986	162015	162031	162038	162104	162124	162138
162170	162172	162176	162186	162204	162206	162217
162222	162228	162240	162283	162288	162318	162320
162337	162339	162398	162399	162400	162425	162436
162438	162439	162471	162479	162487	162513	162518
162519	162520	162557	162581	162585	162589	162594
162597	162606	162763	162768	162773	162807	162906
162941	162946	163031	163048.			

RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 144941 granted to Chisso Corporation for an invention relating to "method for producing vinyl chloride polymers".

The patent ceased on the 17th February 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2, dated the 4th March 1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th July, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(2)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 159783 granted to Hindustan Lever Limited for an invention relating to "an improved bleaching and cleaning composition."

The patent ceased on the 15th September 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 4th March 1989.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th July, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(3)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 147321 granted to Union Carbide Corporation for an invention relating to "an improved liquid-gas contacting tray."

The patent ceased on the 27th February 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 4th March '89.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th July, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(4)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 160431 granted to Electronics Corporation of India Limited for an invention relating to "a tensioning device for tape mechanism of a cockpit voice recorder."

The patent ceased on the 6th August 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 4th March '89.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th July, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

(5)

Notice is hereby given that an application was made under Section 60 of the Patents Act, 1970 for the restoration of Patent No. 150688 granted to Union Carbide Corporation for an invention relating to "process for the removal of acid gases from hot gas mixture."

The patent ceased on the 21st February 1988 due to non-payment of renewal fees within the prescribed time and the cessation of the patent was notified in the Gazette of India, Part III, Section 2 dated the 4th March '89.

Any interested person may give notice of opposition to the restoration by leaving a notice on Form 32, in duplicate, with the Controller of Patents, The Patent Office, "Nizam Palace", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020 on or before the 6th July, 1989 under Rule 69 of the Patents Rules, 1972. A written statement, in triplicate, setting out the nature of the opponent's interest, the facts upon which he bases his case and the relief he seeks, shall be filed with the notice or within one month from the date of the notice.

CESSATION OF PATENTS

148767	148770	148771	148772	148775	148778	148780
148781	148783	148784	148796	148797	148798	148799
148800	148801	148803	148803	148805	148807	148809
148812	148814	148817	148819	148821	148824	148825
148826	148827	148830	148831	148832	148835	148837
148841	148843	148844	148846	148848	148849	148851
148852	148854	148855	148856	148858	148859	148861
148863	148864	148865	148873	148874	148875	148876
148877	148882	148883	148884	148885	148886	148888
148890	148892	148897	148900	148903	148906	148907
148908	148909	148910	148911	148912	148914	148918
148919	148920	148923	148924	148927	148928	148929
148930	148931	148932	148935	148936	148938	148940
148941	148943	148945	148952	148953	148954	148957
148958	148959	148967	148968	148970	148971	148972
148973	148975	148976				

APPLICATION FOR COMPULSORY LICENCE UNDER SECTION 84 OF THE PATENTS ACT, 1970

Applications for compulsory licence in respect of patent Nos. 134949, 134950, 134951, 136137 and 136138 made by Harbans Lal Mathotra and Sons Ltd. of No. 12, New C.I.T. Road, Calcutta-700 073 and notified in the Gazette of India, Part III, Section 2 dated 8th January, 1983 have been treated as withdrawn.

REGISTRATION OF ASSIGNMENTS LICENCES, ETC. (PATENTS)

Assignments, Licences or other transactions affecting the interest of the original patentees have been registered in the following cases

The number of each case is followed by the name of the parties claiming interests :—

149242, 149294, 149295, 149296, 149297.	} BRAKES INDIA LIMITED
149394, 149427, 149638, 149798, 149834.	
149835, 149898, 150046, 150178, 150269.	
150356, 150358, 150461, 150635, 150636.	
150638, 150673 and 150779.	

COMMERCIAL WORKING OF PATENTED INVENTIONS

ELECTRICAL LIST NO. VI.

The following patents in the field of Electrical Engineering industry are not being commercially worked in India as admitted by patented in the statements filed by them under Section 146(2) of the Patents Act, 1970 in respect of calendar year 1987 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & address of the Patentee	Title of the invention
1	2	3	4
157805	20-3-1982	AECI Ltd, 16th floor, Office Tower, Carlton Centre, Commissioner Street, Johannesburg, Transvaal, Republic of South Africa.	An apparatus for testing the resistance of AC operable denotating modules.
151147	8-1-1979	Alcan Research and Development Limited, 1, Place Ville Marie, Montreal, Quebec, Canada.	Aluminium articles having an anodic oxide coating on their surfaces and method of making such articles.
157063	5-10-1981	Alsthom Atlantique, 38 Avenue Kleber, 75794 Paris Cedex 16 France.	A current transformer.
147556	16-2-1978	Asea Aktiebolag S-721 83 Vasteras, Sweden.	Protective device for capacitor bank.
148562	18-4-1978	BICC Public Limited Company, 21 Bloomsbury Street, London WC1B 3QN, England.	Method and apparatus for continuously casting unrefined electrodes in quantity for use in the electrolytic refining of metal.
158099	2-4-1982	Do.	Apparatus for detecting and locating faults in electric cables or cable installations.
158438	23-9-1982	Do.	Flameproof electric couplers.
158540	14-12-1982	Do.	A mineral insulated thermocouple cable having a termination at the hot junction and thereof and the method for providing the same.
156792	13-7-1981	CGEE Alsthom, 13 rue Antonin Raynaud, 92309 Levallois, Perret, France.	Apparatus for measuring single phase reactive power in an AC circuit.
157920	14-6-1982	Chloride Silent Power Limited, 52 Grosvenor Gardens, London SW 1W, OAU, England.	Sodium sulfur cells.
155181	16-12-1980	Do.	Cathode current collectors-methods of making such cathode current.
152994	10-8-1979	Elliott Brothers (London) Ltd., Chelmsford, Essex CM1 1PL, England.	Display units for head up displays.
156054	22-5-1982	Kiran Kirti Chauhan, C/o S.D.S. Chauhan, Tara Nikunj, The Mall, Nahan 173001, Himachal Pradesh, India.	A solid state electronic motor starter.
157807	5-4-1982	Norsk Hydro A.S., Bygdy Alle 2, Oslo 2, Norway.	Diaphragm for water electrolysis.
148272	19-6-1978	The General Electric Company, 1, Stanhope Gate, London W1A, 1EH, England.	Improvements in or relating to moving coil electrical indicating instruments.
154727	29-9-1980	Do.	Electric fuse.
155620	23-2-1981	Do.	Improvements in or relating to apparatus for fault detection.
157698	23-3-1982	Do.	Apparatus for protecting electric power transmission systems against faults.
158133	1-6-1982	Do.	Apparatus for supporting an assembly of unit of electrical or electronic apparatus.
158551	2-8-1982	Do.	A control system in combination with induction motor for controlling the torque of the induction motor.
153592	23-1-1980	Suchi Chiou, 5th floor, No. 15 Lane 180, Ho-Chiang Street, Taipei, Taiwan, Republic of China.	Telephone apparatus with memory stored dialing data for automatic dialing.

COMMERCIAL WORKING OF PATENTED INVENTIONS

LIST NO. VII

The following patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by the under Section 146(2) of Patents Act, 1970 in respect of Calendar year 1987 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of licence for the purposes.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the invention
1	2	3	4
157949	25-5-1982	Aktiengesellschaft, Adolph Saurer, CH-Arbon, Switzerland.	Wet thread-selection apparatus for a weaving machine.
154239	2-7-1980	Atlas Powder Company, 12000 Park Central Place, Suite 1700, Dallas, Dallas County, Texas 75251, U.S.A.	An energy transmission device.
155321	22-1-1981	BICC LTD., Bloomsbury, London WC1B, 3QN, England.	Method of and apparatus for continuous friction actuated extrusion.
157268	13-10-1981	BICC Public Limited Company, 21 Bloomsbury Street, London EC1B, 3QN, England.	Method and apparatus for manufacturing flexible stranded bodies.
147647	2-11-1977	Canadian Ingersoll Rand Co. Ltd., 620 Cathcart Street, H3B, 1M2 Montreal, Quebec, Canada.	Screening apparatus hydrofoil.
148058	2-11-1977	Do.	Screening apparatus.
154411	8-7-1980	Dobson Park Industries Ltd., Dobson Park House, Colwick Industrial Estate, Clowick, Nottingham, England.	An hydraulic telescoping jack.
154919	13-10-1980	Do.	Mine roof support.
150829	4-4-1979	G.D. Società Per Azioni, Via Pomponia, 10, Bologna, Italy.	Device for forming and transferring batches of products in automatic wrapping machines.
157846	21-6-1982	Do.	Device for breaking a continuous rod in a machine for making cigarettes or cigarette filters.
150679	25-1-1979	Hydra-light Ltd., Argyle House, Bentley Mill Close, Walcote, West Midlands W52 0EN, England.	Device for use in tightening nuts.
151967	4-1-1980	Ingersoll-Rand Canada Inc., 630 Dorchester Blvd. W. Montreal, Quebec H3B 1S6, Canada.	Pressurized screening apparatus for screening a liquid suspension.
157373	9-11-1981	John Donald Wishart, 8 Chapel Street, Blackburn, Victoria 3130, Australia.	Improvements in split cycle internal combustion engines.
148205	4-8-1978	Jean Guigan, 9 Rue Jean Mermog, 75008 Paris, France.	Device for dividing a sample of liquid into a plurality of calibrated portions for analysis.
151197	14-6-1979	Morgan Construction Company, 15 Belmont Street, Worcester, Massachusetts, U.S.A.	Process and apparatus for sequentially forming and treating steel rod.
156207	25-5-1981	Do.	High reduction method and apparatus for continuously hot rolling products.
156793	13-7-1981	Do.	Rolling mill.
157706	25-1-1982	Do.	Improvements in rolling mill apparatus.
155023	11-12-1980	National Research Development Corporation Kingsgate House, 66-74 Victoria Street, London, SW1E 6SL, England.	Improvements in or relating to the valve timing mechanism of internal combustion engine.
148962	6-10-1978	Nippon Clean Engine Research Institute Co. Ltd., 205-3, Kitayasu-cho, Kanazawa-shi, Ishikawa-ken, Japan.	A generator blower.

1	2	3	4
157644	4-2-1982	Portals Limited, Overton Mills, Overton, Basingstoke, Hampshire RG25 3JG, England.	Method of making fibrous sheet materials and fibrous sheet materials produced thereby.
158262	12-7-1982	Do.	Method of forming paper having partially embedded within its thickness a strip and paper so formed.
152925	9-8-1979	Q Corporation, 755 West Big Beaver Road, Troy Michigan 48084, U.S.A.	Apparatus for extracting energy from the motion of water beneath waves in a large body of water such as an ocean or a lake.
153401	15-11-1979	Rebuild World RBW, S.A., 3 rue Bicolas Adames, L-1114 Luxembourg.	Prefabricated building.
151467	27-3-1979	Robert Joseph Aresty, 553 Pretty, Brook Road, Princeton, New Jersey, U.S.A.	A solar energy collector apparatus.
148818	7-9-1978	Sentralinstitut for Industriell Forskning, Forskningsvein 1, Oslo 3, Norway.	A system for concentrating water wave energy.
147789	17-11-1977	Societe D'Etudes De Machines Thermiques S.E.M.T., 2, Quai de Seine, 93202 Saint Denis, France.	A supercharger set for internal combustion engines of reciprocating piston type.
153381	25-9-1979	Do.	Improvement in or relating to a mushroom valve with forced fluid cooling in particular for an internal combustion engine.
153625	21-1-1980	Do.	Cam Control device for a four stroke internal combustion engine.
154379	23-5-1980	Do.	Improvements in or relating to a fuel injection pump of internal combustion engine.
155862	13-4-1981	Do.	Improvements in or relating to a piston for a reciprocating piston machine particularly an internal combustion engine.
157868	12-4-1982	Do.	A fuel injection pump for an internal combustion engine.
158573	31-8-1982	Do.	Improvements in or relating to internal combustion engine.
153003	29-8-1989	Societe Internationale De Mechanique Industrielle, S.A. 37 Rue Notre-Dame-Luxembourg.	Fluid seal assembly.
151974	30-5-1979	Societe Nationale Industrielle Aerospatiale, 37 Boulevard de Montmorency, Paris, France.	Helicopter Rotor.
154324	17-8-1979	Do.	A device for limiting the flapping movements of the blades of a rotary wing aircraft-main rotor.
157742	28-1-1982	Do.	Helicopter rotor.
153395	13-11-1979	TBA Industrial Products Limited, 20 St. Mary's Personage, Manchester M3 3NL, England.	A process for the production of solid waven conveyor and solid woven conveyor belting so produced.
158371	1-6-1982	The General Electric Company Limited, 1, Stanhope Gate, London W1A 1EH, England.	An assembly of electrical or electronic apparatus.
157947	21-5-1982	The Goodyear Tire & Rubber Company, 1144 East Market Street, Akron, Ohio 44316, U.S.A.	Apparatus for treating textile rod.
150676	19-1-1979	Tioxide Group Ltd., 10 Stratton Street, London W1A 4XP, England.	Containers.
154511	22-7-1980	Toyo Engineering Corporation, 2-5 Kasumigaseki, 3-chome, chiyoda-ku, Tokyo, Japan.	Granule producing apparatus.
155886	16-4-1981	Do.	Jet Layer Grannulator.

1	2	3	4
148060	23-12-1977	Toyota Jidosha Kogyo Kabushiki Kaisha 1, Toyota-Who, Toyota-shi, Aichi-ken, Japan.	A 2-cycle engine of an active thermo atmosphere combustion type.
157111	17-10-1981	USS Engineers and Consultants Inc., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	A method of renovating or adapting an ori- ficed lower valve plate of sliding gate valve.
155809	8-4-1981	West Point-Pepperell Inc., 400 West 10th Street, West Point, State of Georgia, U.S.A.	Apparatus for applying liquid chemicals to a moving web.

COMMERCIAL WORKING OF PATENTED INVENTIONS

MECHANICAL LIST-VI.

The following Patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by Patentees in the statements filed by them under Section 146(2) of Patents Act, 1970 in respect of Calendar year 1987 generally on account of want of request for licences to work the Patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
(1)	(2)	(3)	(4)
151820	8-11-1979	Maag Gear Wheel & Machine Co. Ltd, P.O. Box CH-8043, Zurich, Switzerland.	Cant segment—radial bearing for heavily loaded high-speed shafts.
140409	11-9-1974	Mahle GmbH, 26-46, Pragstrasse, Stuttgart, West Germany.	A piston and connecting rod arrangement for a reciprocating piston engine.
145582	18-12-1975	Do.	Reinforcing insert for piston ring grooves of pistons.
148836	2-6-1977	Do.	Improvements in or relating to light metal pistons.
149513	2-11-1978	Do.	Piston for internal combustion engines having a piston body consisting of light metal and a crown plate.
154526	8-1-1981	Man Gutehoffnungsmaschinen GmbH, Bahnhofstrasse 66, 4200 Oberhausen 11, F.R.G.	Rotary compressor in particular screw ro- tary compressors.
154116	20-6-1981	MAN Maschinenfabrik, Augsburg-Nurnberg AG, Bahnhofstrasse 66, 4200 Oberhausen, 11, Federal Republic of Germany.	A compressor especially a single stage or multistage screw compressor with means for regulating the quantity of flow of the compressed medium.
139054	25-6-1983	MAN Maschinenfabrik Augsburg-Nurnberg AG, Bahnhofstrasse 66, 4200 Oberhausen 11, West Germany.	A method for the production of synthesis gas and a reactor for carrying out the method.
148886	20-4-1978	Mantrex Limited, Bond Avenue, Bletchley, Buckinghamshire, England.	Improvements in or relating to steel framed buildings.
143770	13-2-1976	Maschinenfabrik Rieter A.G. Winterthur, Switzerland.	A weighing apparatus for continuously wei- ghing a layer of fibre material.
145718	1-10-1975	Do.	An open end spinning machine with a plurality of adjacent exchangeable spinning units.
148513	31-5-1977	Do.	An apparatus for use in separation and depo- sition of opened fibre flocks from a trans- porting airstream.
149913	29-7-1978	Do.	A pneumatic system for feeding a plurality of fibre treating machines with fibres.
150917	18-8-1979	Do.	Web crushing apparatus for a card web.

1	2	3	4
151436	27-4-1979	Maschinenfabrik Rieter A.G. Winterthur, Switzerland.	Apparatus for separating fibre from an air stream in a pneumatic transporting system for spinning machines.
151438	1-6-1979	Do.	Apparatus for eliminating metallic contaminations from a fibre transporting dust in spinning preparation.
151535	4-7-1979	Do.	Feed apparatus for a fibre layer in an opening roller or cards of spinning preparatory machines.
151638	3-5-1979	Do.	A cleaning blade for rotatable smooth rollers on spinning machines particularly on carding engines.
151671	9-5-1979	Do.	An apparatus for consecutively controlling the operating condition of a ring spinning machine and a ring spinning machine incorporating said apparatus.
151723	4-7-1979	Do.	Apparatus for separating opened fibre flocks from a transporting air stream.
151767	19-10-1979	Do.	Inner ring for a spinning ring of ring spinning or ring twisting machines.
151786	7-9-1979	Do.	Spinning ring made from steel for ring spinning and ring twisting machine.
151787	11-10-1979	Do.	Ring for ring spinning and ring twisting machines.
151789	2-1-1980	Do.	Spinning rotor made from steel for open and spinning machines.
151814	4-7-1979	Do.	A method of manufacturing a fibre layer in blow-room machines and an apparatus for carrying out the method.
151961	19-1-1980	Do.	Fibre silver opening roller for an open end spinning device and said device having said roller.
151990	11-7-1979	Do.	Method and apparatus for producing a draftable, twisted roving consisting of staple fibres which is wound on a rotating package with imparted twist.
152373	7-9-1979	Do.	Drive for drafting arrangement rolls of long spinning machines.
152630	10-6-1980	Do.	Spinning preparatory machine, in particular a card.
152642	19-2-1980	Do.	Travelling scanning apparatus for successively monitoring the working conditions at each spinning position of a ring spinning machine.
152647	23-4-1980	Do.	Apparatus for controlling the working conditions in a processing machine of the staple fibre spinning plant.
152736	3-7-1980	Do.	Winding apparatus for threads or yarns.
152764	20-8-1980	Do.	Winding machine with doffing carriage.
152776	22-9-1979	Do.	Method and apparatus for manufacturing bobbin packages of a fibre roving.
152884	28-3-1981	Do.	A thread texturising nozzle.
153447	15-9-1980	Do.	A thread treating apparatus.

1	2	3	4
153532	13-4-1981	Maschinenfabrik Rieter A.G. Winterthur, Switzerland.	Electric stop motion apparatus for a textile machine fed with fibre slivers.
153909	10-7-1980	Do.	Method of producing draftable staple fibre sliver and apparatus for implementing the method.
153921	21-9-1979	Do.	Winding apparatus with means for automatically exchanging tubes for continuous filaments.
153933	7-7-1980	Do.	Preparatory spinning machine for implementing a method of automatically doffing the full bobbin packages from and donning the empty bobbin tubes on to the spindles of such machine.
153941	15-9-1980	Do.	Apparatus for controlling the rotational speed of the spindles of a spinning preparatory machine.
154200	15-9-1980	Do.	Apparatus with a bobbin support member for an open-end spinning machine.
154205	28-3-1981	Do.	An autolevelling drawframe for levelling out variations of a fibre sliver.
154255	20-8-1980	Do.	A bobbin revolver.
154453	24-12-1981	Do.	Gripper apparatus on a ring spinning or ring twisting machine.
154539	1-1-1981	Do.	A traverse cam drum for a winding machine thread traversing mechanism.
154792	27-7-1981	Do.	Probing exchange apparatus on a ring spinning or ring twisting machine.
154895	22-6-1981	Do.	Apparatus for checking a blending plant for textile staple fibres.
155450	9-9-1980	Do.	Spinning preparatory machine.
155469	23-12-1981	Do.	Apparatus for sorting conical bobbin tubes.
155478	15-9-1980	Do.	Thread treating nozzle.
155569	4-11-1981	Do.	Spinning machine, in particular ring spinning machine.
155689	12-4-1982	Do.	An improved apparatus for changing deposition cans on spinning preparatory machines particularly on draw frames.
156078	1-4-1982	Do.	Apparatus for winding a thread.
156253	25-9-1982	Do.	Device for continuous compression and determination of a fibre sliver.
156452	24-9-1982	Do.	Device for removing a layer of matted fibres on a filter drum rotatable in a filter housing.
156521	24-9-1982	Do.	Device for concreted gripping of empty or wound bobbins on a ring spinning or ring-twisting machine.
156559	24-9-1982	Do.	Draw-winding or spin-draw-winding machine.
156859	5-6-1982	Do.	A method and device for suction removal of thread upon break.
157153	28-8-1982	Do.	Spinning or twisting spindle.
157378	27-9-1980	Do.	Bobbin for use on a roving frame.
157411	13-7-1982	Do.	Apparatus for cleaning spinning rotors.
157469	27-9-1980	Do.	Bobbin support structure for a roving frame.

1	2	3	4
157550	10-2-1982	Maschinenfabrik Rieter A.G. Winterthur Switzerland.	Take-off roll for mechanically opening fibre bales.
158418	20-5-1982	Do.	Method of producing a heated filament by means of heating a godet and a heatable godet.
158729	22-3-1982	Do.	Method and apparatus for producing transportable body of textile fiber sliver.
158747	7-4-1983	Do.	Device for arranging on an auxiliary transport belt of packages wound on an open-end spinning machine.
158954	3-9-1982	Do.	Winder for thread.
159231	22-3-1982	Do.	Method and drafting arrangement for spinning machines for processing a fibre sliver.
159264	16-3-1983	Do.	Device for cutting a fiber sliver.
159551	6-6-1983	Do.	Drafting mechanism for a spinning machine.
159719	12-9-1982	Do.	Granting for a rotatable opening roller of a cleaning machine for cotton fibres.
160371	25-5-1984	Do.	Apparatus for opening textile fibre bales.
160653	15-6-1984	Do.	Device for doubling of fibre webs.
161183	19-5-1984	Do.	A travelling piecing apparatus.
152350	22-7-1980	Massey-Ferguson Services N.V. Abraham De Veerstraat, 7A, Curacao, Netherlands, Antilles.	Transmission ratio selecting mechanism.
154966	29-8-1981	Do.	Control lever arrangement.
155843	16-11-1981	Do.	An annular disc for use in a multiple disc brake.
156655	10-8-1982	Massey-Ferguson-Perkins Ltd., 33, Davies Street, London W1Y, 2EA, England.	Internal combustion engines.
157072	25-5-1982	Massey-Ferguson Services N.V. Abraham De Veerstraat, 7A, Curacao, Netherlands, Antilles.	Lockable pedal arrangements.
152885	2-4-1981	Mineral Deposits Limited 81, Ashmore Road, Southport, Queensland Australia.	A spiral separator.
153222	2-4-1981	Do.	A spiral separator.
155472	6-1-1982	Do.	Improvements in spiral separators.
157198	1-10-1982	Do.	Improvements in or relating to spiral separators.
153149	20-11-1980	Mitsui Toatsu Chemicals Incorporated, No. 2-5, Kasumigasaki 3, chome, Chiyodo-ku, Tokyo, Japan.	Process and apparatus for granulating solidifiable fluid materials.
156008	3-11-1981	Nitto Boseki Co. Ltd., 1, Aza Higachi, Gonomo, Fukushima-shi, Japan.	Method of manufacturing glass fibres.
148761	25-9-1978	Nripendranath Chakravarti, M/132 Greater Kailash II, New Delhi-110 048, India.	A tower.
156961	19-10-1982	Oko-Energie AG, Hegibachstrasse 110, CH-8032, Zurich, Switzerland.	Wind-driven power generating plant.
157159	8-12-1982	Olin Corporation, Pisgah Forest, North Carolina 28768, U.S.A.	Wrapper for smoking articles and smoking article using the same.
150001	22-5-1979	Oswald Brann, Banzlauer, D-8000 Munchen 50, West Germany.	Combustion furniture.
143366	21-6-1975	Otto Junker GmbH, 5107, Simmerath, West Germany.	Procedure for casting specified quantities of molten metal and device for carrying out this procedure.

1	2	3	4
154291	21-5-1980	(Mrs.) Prabha G. Tasgaonkar, 506, Shakuntala Apartment, 59, Nehru Place, New Delhi-110009	A cooking utensil.
157037	21-9-1983	Pressure Cookers and Appliances Ltd., F-101, Maker Towers, Cuffe Parade, P.O. Box-16083, Bombay-400 005.	Bin for refuse.
157272	30-1-1984	Do.	A filtration apparatus.
157275	25-3-1983	Do.	Pressure cookers.
157276	30-1-1984	Do.	A filtration apparatus.
157626	25-3-1982	Pressure Cookers and Appliances Ltd., United India, Bldg.—Pheroze Shah, Mehta Road, Bombay-400 001, India.	Pressure responsive safety valve for pressure cookers for domestic use.
158392	21-9-1983	Pressure Cookers and Appliances Ltd., F-101 Maker Towers, Cuffe Parade, P.O. Box 16083, Bombay-400 005.	Improvements in or relating to pressure cookers.
144968	25-10-1976	R.A. Lister & Co. Ltd., Long Street, Dursely, Gloucestershire—GL 11 4RS, England.	Improvements in or relating to a piston for an internal combustion engine.
142409	28-5-1975	Research Corporation 405 Lexington Avenue, City of New York, State of New York, U.S.A.	Power piston actuated displacer piston driving means for free-piston stirling cycle type engine.
153924	20-2-1980	Richard Florencio Blaser, 14416 Innsbruck Court, Silver Spring, Maryland 20906, U.S.A.	An apparatus carrying out energy conversion cycle for internal combustion engine.
155791	18-12-1981	Richard J. Manro 41, Sunset Lane, Ridgefield, Connecticut 06877, U.S.A.	Improved heat generator.
152514	7-12-1979	Rieter Deutchlend GMBH, Reutlingen, F.R.G.	Web take-off apparatus at the doffer of a card.
144046	21-4-1975	Riva Calzoni S.P.A., Via Stendhal 34, Milano, Italy.	Water level control volaves in tanks.
148489	6-7-1977	Robert Emile Justin Cassou and Bertrand martial Emmanuel Cassou of Rue Clemenceau, 61300 L'aigle, France.	Injecting gun for animals, in particular for the artificial insemination of cattle.
154639	29-2-1980	Robert Henry Abplanalp, 10 Hewett Avenue, Bronxville, Westchester Conty, New York, U.S.A.	Method and apparatus for the mass production of a gasket bearing aerosol mounting cup.
155677	29-2-1980	Do.	Gasketed mounting cups for aerosol dispensing containers.
154565	8-9-1981	Rustom Phiroze Soonawala, 1-10, Lajpat Nagar-1, New Delhi-24, India.	An intra uterine contraceptive device.
154571	8-9-1981	Do.	An inserter for introducing and depositing an intrauterine device.
154265	21-1-1982	Rute-To Strako B.V. Deurne, The Netherlands.	Device for inserting a pick into the weaving shed of a pneumatic loom.
155116	4-1-1982	Do.	Shuttleless weaving machine.
154057	11-2-1981	5-a PRB Societe, Anonyme, Avenue de Braqueville, 12, 1150, Bruxelles, Belgium.	Propellant for base-bleed gas generators and process for manufacturing it.
154058	11-2-1980	5-a PRB Societe, Anonyme, Avenue de Braqueville 12, 1150, Bruxelles, Belgium.	Process for the manufacture of insulated propellant sets for base-bleed generators.
147611	15-9-1977	Schottel-werft Josef, Becker GmbH, & Co. kg. 5401, spay/Rhein, Federal Republic of Germany, Germany.	Power driven vessel.
149418	11-10-1977	Sealed Power Corporation, 2001, Sanford Street, Muskegan, Michigan 49443, U.S.A.	A slip latch in combination with a circular spacer-expander for use in a piston oil control ring.

1	2	3	4
151068	16-3-1979	Do.	Pipe joints.
151744	25-9-1979	Do.	A substantially fluid tight metal to plastics pipe joint.
152199	15-3-1979	Do.	A parted annular sealing ring and method of the manufacture.
153653	15-6-1981	Scaled Power Corporation 100 Terrace Plaza, Muskegon, Michigan 49443, U.S.A.	A transmission fluid filter.
153886	15-5-1980	Do.	Arrangement for removably fastening a deformable member to a separate body.
155372	26-3-1981	Do.	Piston ring.
156187	7-9-1982	Do.	Mounting device for plastic workpieces.
139210	6-7-1974	SECIM, 107 Boulevard De La Mission Marchand, 92400 Courbevoie, France.	A method and a device for manufacture of a product rolled continuously from a blank obtained by continuous casting into a grooved wheel.
150004	12-9-1979	Sintokogio Ltd., Toyota Bldg, 7-23 Meicki-4-Chome, Nagoya, Japan.	Molding machine.
150025	25-7-1979	Do.	Molding apparatus.
150110	22-8-1979	Do.	Method of and apparatus for molding a drag mold part.
152826	9-12-1980	Do.	Molding machine.
147175	6-9-1976	Societe Nationale Des Poudres Et Explosifs 12, Quai Henri IV, 75181 Paris, Cedex 04, France.	Improvements in or relating to a screw extruder having a screw casing connected to a bed.
149931	20-6-1979	Somnath Ray, 229 B.N. Road, Calcutta-60 State of West Bengal, India.	Machine for effecting withering of tea leaves.
155945	17-3-1977	Stamicarbon B.V. P.O. Box 10, Gelleen, Netherlands.	Device for spraying liquids.
154591	10-9-1980	Stone & Webster, Engineering Corporation, 245, Summer Street, Boston, Suffolk County, Massachusetts 02107, U.S.A.	A solid-gas separator.
157365	21-12-1982	Sven-Erik Schedwin, Box 8280, Falun, Sweden.	Arrangement for transferring heavy work pieces.
152938	24-5-1979	The Babcock and Wilcox Company 1010, Common Street, New Orleans, Louisiana 70160, U.S.A.	Lance tube for cleaning apparatus for boilers.
155475	3-5-1982	The Babcock & Wilcox Company, 1010, Common Street, New Orleans, Louisiana 70112, U.S.A.	A soot blower having a lance tube which is movable both axially and angularly.
156692	22-2-1982	The Babcock and Wilcox Company, 1010, Common Street, New Orleans, Louisiana 70112, U.S.A.	A long travel soot blower or the like.
156890	22-2-1982	Do.	Feed tube assembly for the lance tube of a long travel sootblower.
156995	5-8-1982	Do.	An apparatus for removing deposits from highly heated surfaces.
156996	5-8-1982	Do.	Device for dislodging an adherent deposit from the heated area of a heat exchanger.
157513	18-5-1982	Do.	Roller supporting means for long retracting sootblowers.
148933	27-8-1979	The Director General, Cement Research Institute of India, M-10, South Extension II, Ring Road, New Delhi-110049.	A steel fibre reinforcement for use in cement concrete matrix.
149225	27-8-1979	Do.	A steel fibre forming machine.

1	2	3	4
152420	21-5-1980	Do.	A steel fibres denester.
153001	27-8-1979	Do.	A shuttle.
147141	24-4-1978	The Fertilizer (Planning & Development) India Ltd., P.O. Sindri, Pin-828122, Dhanbad, Bihar.	A system for determining or evaluating the thermal conductivity of heat insulating material.
153695	2-1-1981	The Fertilizer (Planning & Development) India Ltd., P.O. Sindri, Dist-Dhanbad, Bihar PIN-828122, India.	An apparatus for determining the ash content in a coal sample.
144724	28-4-1975	The Goodyear-tire and Rubber Company, 1144 East Market Street, Akron, Ohio, U.S.A.	Multi-ribbed power transmission belt and method of making said belt.
154339	16-6-1980	The Jay Engineering works Ltd., 23, Kasturba Gandhi Marg, New Delhi-110 001.	A vertically mounted small or fractional horse power electric motor having a self lubrication system.
158523	13-8-1982	The Secretary of state for Defence, Whitehall London SW1A 2HB England.	A wear producing projectile with forward end and rearward end.
159479	27-6-1983	Do.	Liquid crystal devices.
150237	3-8-1979	The Western States Machine Company, 1798, Fairgroove, Avenue, Hamilton, Ohio-45012, U.S.A.	Power operated loading gate for centrifugal machines incorporating an auxiliary drive device.
150388	28-11-1979	The Western States Machine Company, 1798, Fairgroove Avenue, Hamilton, Ohio 45012, USA.	Cyclical centrifugal machine with improved gyratory suspension head structures.
152700	4-12-1979	Do.	A centrifugal apparatus including a rotary centrifugal basket and means for delivering a flow of charge material into the basket.
152906	26-11-1979	Do.	Improved cyclical centrifugal machine and a system for controlling transmission of torque.
153733	20-1-1981	Do.	Improvement in or relating to a continuous centrifugal machine.
157305	26-8-1982	Thermo King Corporation, 314, West 90th Street, Minneapolis, Minnesota 55420, U.S.A.	Transport refrigeration unit with removable power pack frame.
149719	20-3-1978	Tideland Signal Corporation, P.O. Box 52430, Houston, Texas 77052, U.S.A.	Enclosure for solar cell panel and solar cell panel including the electrode.
150156	8-3-1979	Toray Silicone Co. Ltd., 8, Nihonbashi-Muromachi-2-chome, Chuo-ku, Tokyo, Japan.	A moisture impermeable package for room temperature curing one-part sealants.
151823	30-1-1980	Tox-Dubel-Werk R.W. Heckhausen GmbH & Co. Kg., D-7762 Bodman-Ludwigshafen, West Germany.	Expanding fixing plug.
154808	15-1-1982	Do.	Nail plug.
156350	6-5-1982	Toyo engineering Corporation, No. 2-5, Kasumigaseki, 3-chome, Chiyoda-ku, Tokyo, Japan.	Waste-heat boiler.
149844	17-3-1978	Trutzschler GmbH & Co., Duvenstrasse, 82-92, D-4050 Monchengladbach 3, West Germany.	Carding machine.
149933	29-8-1979	Trutzschler GmbH & Co., Duvenstr. 82-92, D-4050 Monchengladbach-3, Federal Republic of Germany.	Guiding means for collecting fibre naps from textile fibre draw rollers and forming rovings therefrom.
151140	23-7-1979	Do.	A device for opening of several textile fiber bales.
154981	13-1-1982	Do.	Device for separation of foreign body being impurities from cotton fibre flanks or flocks.
156311	14-5-1982	Do.	Device for controlling and regulating a carding machine.

1	2	3	4
145049	13-10-1977	Tsurumi Soda Co. Ltd., 7, Suehirocho-1-chome, Tsurumi-ku, Yokohamashi, Kanagawa-ken, Japan.	Apparatus for expanding, destroying and softening structures of animal and vegetable fibrous materials.
147475	16-5-1977	Union Carbide Corp., 270, Park Avenue, New York, 10017, State of New York, U.S.A.	A foam applicator head for application of foam to a substrate.
157630	16-12-1981	Do.	Method and apparatus for applying foam to openweak substrates.
144293	3-10-1975	United States Pipe and Foundary Co., 3300 First Avenue, North, Birmingham, Alabama, U.S.A.	Apparatus for shifting trough of centrifugal casting machine.
147773	28-11-1977	Do.	Pipe joints.
157498	28-1-1983	United Technologies Corporation, 1, Financial Plaza, Hartford, Connecticut 06101, U.S.A.	A solid fuel burning stove.
156694	27-2-1982	USS Engineers and Consultants, Inc., 600 Grant Street, Pittsburgh, State of Pennsylvania, U.S.A.	Improvements in the pouring of molten metals.
156871	28-11-1981	Veb kombinat Fortschritt, Landmaschinen, 8355, Neustadt in Sachsen, Berghaus Strasse 1, GDR.	Processing apparatus used in a butter-making machine.
158423	15-2-1983	Veb kombinat Fortschritt, Landmaschinen, 8355, Neustadt in Sachsen, Berghaus Strasse 1, German, Democratic Republic.	Self-cleaning drum for centrifugal separators.
151307	15-11-1979	Veb kombinat Textima, DDR-9010 Karl, Marx, Staff. Altchemnitzstrasse 46, G.D.R.	Flat bed combing machine for preparatory treatment of fibres.
154631	10-7-1981	Veb Schweremaschinenbaukombinat Ernst Thälman" 3011 Magdeburg, Marienstrasse 20, G.D.R.	Method of and apparatus for the heat treatment of fine granular material.
140912	27-2-1974	V.M. RAV, Post Box No. 714, 38 Mount Road, Madras-600 006, Tamil Nadu, India.	Apparatus for separating or removal of entrained particles from gases.
142096	27-2-1974	Do.	Process for the electrostatic precipitation of entrained particles and droplets from gas streams.
153640	29-12-1979	Vöest-Alpine AG, A-1011 Vienna, Friedrichstrasse 4, Austria.	Hollow cutting head of cutting machine.
155702	20-2-1982	Vöest-Alpine AG, A-1011 Vienna, Friedrichstrasse 4, Austria.	Cooling system for cooling the bits of a cutting machine.
155873	29-4-1982	Do.	Device for drying coal.
157043	7-6-1983	Do.	Bit holder equipped with a spraying device.
157531	12-10-1982	Do.	Movable cutting machines.
158702	3-8-1983	Do.	Cutting head for drift advancing machines.
158887	3-8-1983	Do.	Cutting head for drift advancing machines and process for producing same.
159384	7-1-1984	Do.	Crawler chassis.
157733	4-3-1982	Vyzkumny ustav Bavlanasky, Ustinad Orilice, Czechoslovakia.	Open-end spinning machine.
144720	26-11-1974	Westinghouse Brake and signal Co., Ltd., 3, John Street, London WC 1N, 2ES, England.	Fluid pressure operable brake actuators.
148367	29-11-1977	Westinghouse Electric Corporation, Gateway Center, Pittsburgh, Pennsylvania 15222, U.S.A.	Combustion apparatus for a gas turbine.

1	2	3	4
155686	29-1-1982	Westinghouse Electric Corporation, Gateway Center, Pittsburgh, Pennsylvania, 15222, U.S.A.	Gas turbine combustors.
155701	15-2-1982	Do.	A catalytic combustion system for a station- ary gas turbine.
158893	6-10-1983	Do.	Air foil blades for a cooled first stage rotor of a land-based combustion turbine.
155407	17-4-1982	White consolidated Industries Inc. 11770 Berea Road, Cleveland, Ohio 44111, U.S.A.	Hermatic refrigeration compressor.
156199	4-5-1982	White Consolidated Industries Inc., 11770, Berea Road, Cleveland, Ohio 44111, U.S.A.	Compressor discharge valve.
156565	17-4-1982	Do.	A hermetic refrigeration compressor.
154130	9-1-1980	Willi Burth, Marienplatz 4, 7980, Ravensburg, West Germany.	Method and apparatus for winding (putting through) on endless strip in a storage means.
147124	11-3-1977	William Lister, 36 Rabeul Street, Moorooka, Queensland 4105, Australia	A pneumatic percussion hammer.
147343	27-6-1977	William Lister 36, Rabeul St. Moorooka, Queensland 4105, Australia.	Rock-drilling bit for percussion hammers.
155504	5-2-1982	Wolfgang Priestmuth Postkamp 13, D-2210 Itzehoe-Nordsee, West Germany.	Acetylene gas reactor particularly for fueling a motor vehicle engine.
154124	14-9-1981	Yen Ti Huang, P.E. P.O. Box 31596, Dallas, Texas 75231, U.S.A.	Modular structure being a dome-type roof structure.
151734	12-12-1978	Yokogawa Hokushin Electric Corporation, 9-32, Nakacho, 2-chome, Musaschinoshi, Tokyo, Japan.	Indicating recorder.

COMMERCIAL WORKING OF PATENTED INVENTIONS

CHEMICAL LIST NO. VI

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by them under Section 146(2) of the Patents Act 1970 in respect of calendar year 1987 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the invention
1	2	3	4
149470	30-6-1978	Aksjeselskapet Norcem, Haakon VII's gate 2, Oslo 1, Norway.	Process for manufacturing concrete of high corrosion resistance.
158098	25-3-1982	Boliden Aktiebolag, Sturegatan 22, S-11485 Stockholm, Sweden.	Method for the extraction and recovery of mercury from gas containing sulphur dioxide and gaseous elemental mercury.
154697	14-1-1980	Ciba-Geigy AG., Klybeckstrasse 141, 4002 Basle, Switzerland.	Process for the absorption and subsequent removal as sulphur of hydrogen sulphide from gases gas mixtures and liquid hydro- carbons.
154309	21-5-1980	Dyno Industrier AS Tolloygaten 22, Oslo 1, Norway.	Capsensitive powdered explosive composition

1	2	3	4
158487	27-5-1982	Exxon Research and Engineering Company, Florham Park, New Jersey, U.S.A.	An improved middle distillate fuel composition.
148664	26-6-1978	Do.	Lubricating oil composition a process for preparing the same.
153421	5-12-1979	Do.	Process for converting hydrophilic water containing regenerated cellulose membranes to membranes useful for separating organic liquids.
154509	21-7-1980	Do.	Method of stabilizing isoocten polymer slurries.
158669	22-11-1982	Glaverbel Chaussee de la Hilpe 166, B-1170, Bruxelles, Belgium.	A process for forming a refractory mass.
151106	8-5-1979	Mitsui Toatsu Chemicals Inc., 3-2-5 Kasumigaseki, Chiyoda-Ku, Tokyo, Japan.	An improved process for synthesizing urea from ammonia and carbon dioxide with elimination of possible explosion of the tail gas from said process.
155595	18-3-1981	Norsk Hydro A.S. Bygdy Alle 2, Oslo 2, Norway.	Method and apparatus for the gaseous reduction of iron ore to sponge iron.
157483	3-2-1982	Do.	Improved process for pan granulation of nitrogenous fertilizer products.
148881	28-9-1978	O Corporation, 755 West Big Beaver Road, Suite 1610, Troy, Michigan, U.S.A.	Process for producing substantially non-polluting fuel products.
154412	10-7-1980	Societe Chimique Des Charbonnages, Tour Aurore, Place des Reflets, Cedex No. 5, F-92080 Paris La Defense 2 France.	Process for manufacturing ethylene polymer and an apparatus for operating same.
156817	6-1-1982	Societe De Conseils De Recherches & D'Applications Scientifiques, 264 Rue du Faubourg, Saint Honore, Paris 8eme, France.	Process for preparing 3, 4-c pyridine derivatives.
148102	6-2-1978	Societe Nationale Des Poudres Et Explosifs, 12 Quai Henri IV, 75181 Paris, Cedex 04, France.	Tertiary explosive compositions and explosive charge containing the same.
148695	6-3-1978	Do.	Process and apparatus for the continuous nitration of cellulose using a nitrating liquor comprising nitro acid, sulphuric acid and water.
153422	5-12-1979	Do.	Combustible objects, in particular combustible cartridge cases which are heat resistant to self ignition.
156838	26-6-1981	Do.	New process for doalkulation of tertiary amines using α -chlorinated chloroformates.
157599	11-2-1982	Do.	Process for the synthesis of isosorbide mono-nitrates.
144637	6-3-1978	The Badger Company, Inc., 1, Broadway, Kendall Square, Cambridge, Massachusetts, U.S.A.	Process for improving the quality of fluidized bed of reactants and catalysts and fixed fluidized beds so improved.
148653	4-5-1978	The Goodyear Tire & Rubber Company, 1144 East Market Street, Akron, Ohio, U.S.A.	Process of making an adhesive.
154762	10-10-1982	Do.	Process for the synthesis of unsaturated aryl amides.
157255	16-10-1981	The Goodyear Tire and Rubber Company, 1144 East Market Street, Akron, Ohio 44316, U.S.A.	Process for removal of sulphur compounds from a gas stream.
151159	31-10-1979	Toyo Engineering Corporation 5-2 Kasumigaseki, 3-Chome, Chiyoda-ku, Tokyo, Japan.	Process for preparation of urea.
154849	16-9-1980	Do.	A spouted bed granulation process.
157607	2-7-1982	Do.	Process for preparation of polymeric substance or a liquid product containing polymeric substance.
158132	27-4-1982	USS Engineers and Consultants Inc 600 Grant Street—Pittsburgh— State of Pennsylvania U.S.A.	Hydraulic refractory cementitious formulation

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of page in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

CLASS : 206-E. 164661

Int. Cl. : H 01 p 3/16.

A METHOD OF FORMING A PREFORM FOR A HIGH BANDWIDTH OPTICAL FILAMENT.

Applicant : CORNING GLASS WORKS, AT HOUGHTON PARK, CORNING, NEW YORK 14870, U.S.A.

Inventors : (1) ROBERT OLSHANSKY, (2) ARNAB SARKAR.

Application No. 772/Cal/79 filed July 26, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A method of forming a preform for a high bandwidth optical filament comprising providing a cylindrical tubular member, forming a barrier layer comprising a base glass and B_2O_3 on the inside wall surface of said tubular starting member, maintaining the quantity of said base glass and said B_2O_3 substantially uniform throughout the thickness of said barrier layer, and forming a core layer consisting essentially of a high purity base glass, B_2O_3 and at least one additional dopant over said barrier layer thereby forming an interface, said core having a gradient index of refraction from said interface to the central axis of the preform, characterized in that said barrier layer is formed from a material composition which in addition to said base glass and B_2O_3 includes said at least one additional dopant, the quantity of which in the barrier layer is also maintained substantially uniform throughout the thickness thereof, the amount of said at least one additional dopant being related to said B_2O_3 so that the index of re-

fraction of said tubular starting member, and to the end of providing said core layer with a stepless gradient index of refraction at said interface which is essentially equal to that of said barrier layer at said interface, the quantity of B_2O_3 is gradually decreased within said core layer starting at said interface, from its uniform quantity throughout the thickness of said barrier layer, towards the central axis of said preform, while simultaneously also gradually varying the quantity of said at least one dopant starting at said interface, from its uniform quantity throughout the thickness of said barrier layer, towards said central axis in a predetermined manner so as to result in a stepless redetermined gradient index of refraction across the cross section of said core layer.

Compl. specn. 23 pages.

Drgs. 3 sheets

CLASS : 56-B.

164662

Int. Cl. : C 10 g 11/00.

PROCESS FOR CONVERTING HYDROCARBONS TO PRODUCE GASEOUS OLEFINS AND AMMONIA.

Applicant : LINDE AKTIENGESSELLSCHAFT, ABRAHAM-LINCOLN-STRASSE 21 D-6200 WIESBADEN, F. R. GERMANY.

Inventor : PHILIP STEAD.

Application No. 1385/Cal/83 filed November 14, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

Process for converting hydrocarbons for olefin production and synthesizing ammonia simultaneously, characterized in that :

- a hydrocarbon-containing feedstock is converted in a thermal cracking to a cracked gas containing normally gaseous olefins,
- the cracked gas after cooling thereof is subjected to a gas separation with recovery of the normally gaseous olefins and at least also a hydrogen-rich fraction,
- impurities are separated from the hydrogenous fraction,
- the hydrogen is mixed with nitrogen in a ratio suitable for ammonia synthesis, and
- the hydrogen-nitrogen mixture is reacted under ammonia synthesis conditions.

Compl. specn. 16 pages.

Drgs. 3 sheets

CLASS : 187-H.

164663

Int. Cl. : H 04 b 3/00.

DATA NETWORK INTERFACE MODULE.

Applicant : SIEMENS AKTIENGESSELLSCHAFT OF BERLIN AND MUNICH WEST GERMANY.

Inventors : WERNER FLACH.

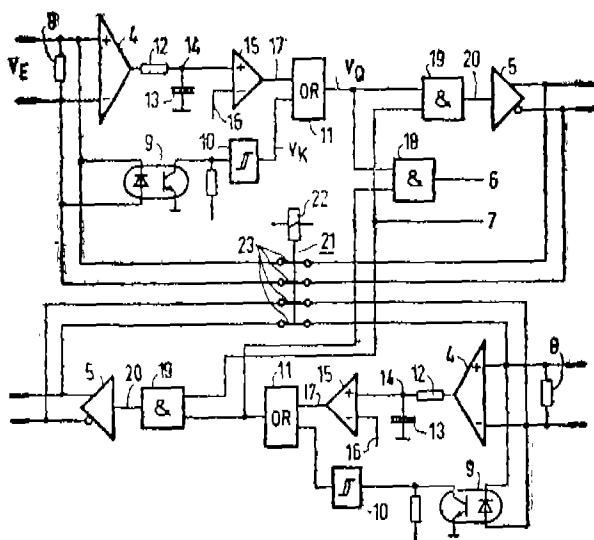
Application No. 888/Cal/85 filed December 09, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

13 Claims

An interface module for connecting a bus station with a data network, comprising at least :

- (i) a first receive portion having an input and an output;
- (ii) a first transmit portion having an input and an output;
- (iii) means such as a relay having a first normally closed contact arm and having a coil connected to the power supply voltage for connecting the input of the first transmit portion to the output of the first receive portion; and
- (iv) means such as a detection means like an optical coupler for detecting whether the input signal is in a valid state and gate means responsive to said detection means through a delay stage connected to the input time for connecting the output of the first transmit portion to the input of the first receive portion in response to the absence of a power supply voltage.



Compl. specn. 10 pages.

Drg. 1 sheet

CLASS :

164664

Int. Cl. : A 47 b 1/00, 3/00.

EXTENSIBLE TABLE.

Applicant : SICO INCORPORATED, OF 7525 CAHILL ROAD, MINNEAPOLIS, MN 55435, U.S.A.

Inventors : (1) GEORGE ELLIOT MCNAMARA, (2) VIRVIL DALE PETERSON.

Application No. 799/Cal/86 filed November 03, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

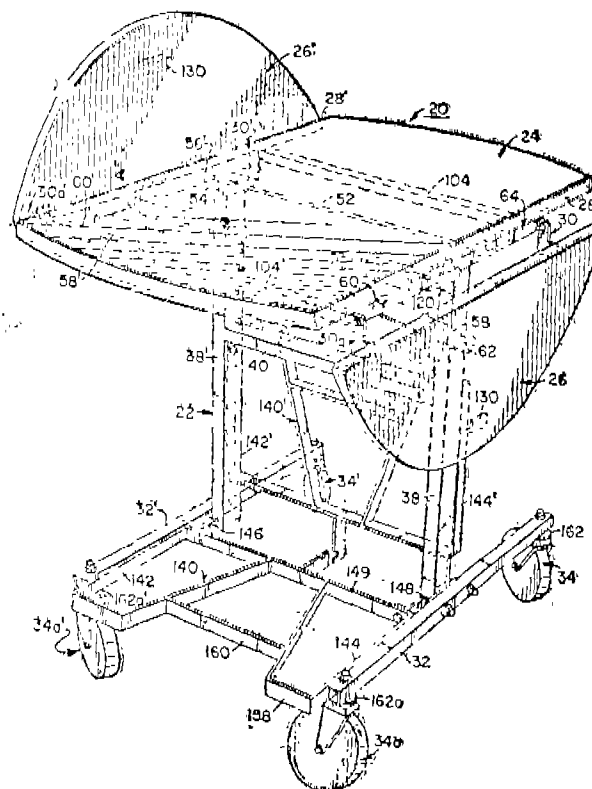
4 Claims

A table comprising :

- a support;
- a table top;
- means for connecting said top to said support;
- a leaf for said table top;

hinge means for hinging said leaf to said top for movement of said leaf from a first position aligned with said top to a second position, said hinge means including a first hinge member connected to said leaf and a second hinge member connected to said table top; pivot means for pivotally connecting said first and second hinge member; means for slidably connecting said second hinge member to said table; and

means for locking said leaf in said second position.



Compl. specn. 16 pages.

Drgs. 5 sheets

CLASS :

164665

Int. Cl. : C 01 b 17/44.

PROCESS FOR PRODUCING SULPHUR FROM CALCIUM SULPHATE.

Applicant : NAUCHNO-PROIZVODSTVENNOE OBIE-DINENIE "TEKHENERGOKHIMPROM", OF SCHERBA-KOVSKAYA ULITS, 3, MOSCOW, USSR.

Inventors : (1) IGOR GEORGIEVICH KOSTYLKOV, (2) OLEG VLADIMIROVICH ROGACHEV, (3) IGOR ANA-TILIE VICH ZHUKOV, (4) VLADIMIR VASILIEVICH ZHIZHIN, (5) DAVID NAUMO VICH SOSCHIN.

Application No. 822/Cal/86 filed November 13, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A process for producing sulphur from calcium sulphate comprising granulation of a charge from powder-like calcium sulphate and a carbonaceous component at a mass ratio of a carbon of the carbonaceous component to calcium sulphate of 0.08—0.09 : 1 respectively; mixing the resulting charge

granules with a lump-like carbonaceous material at a mass ratio of carbon of the carbonaceous material to the charge granules, as calculated for dry solids, equal to 1:3—10 respectively; heating the mixture of the charge granules with lump-like carbonaceous material in a vertical calcination furnace with a continuous downward movement of said mixture in the furnace simultaneously with a counter-current supply of an oxygen-containing gas; the maximum heating temperature being maintained at 1,100—1,200°C and the temperature of the upper bed of said mixture in the furnace being maintained equal to 500—600°C; and condensation of sulphur vapours from the reaction sulphur-containing gases effluent from the top of the furnace.

Compl. specn. 22 pages.

Drg. Nil

Int. Cl. : A 01 n 33/00 to 37/00.

164666

PROCESS FOR PREPARATION OF PYRIDAZINONE DERIVATIVES.

Applicant : NISSAN CHEMICAL INDUSTRIES, LTD., OF 37-1, KANDA NISHIKI-CHO, CHIYODA-KU, TOKYO JAPAN.

Inventors : (1) TOMOYUKI OVURA, (2) YASUO KAWAMURA, (3) MASAYOSHI HIROSE, (4) KIMI-NORI HIRATA, (5) MASAKI KUDO, (6) TOSHIRO MIYAKE.

Application No. 662/Cal/86 filed September 02, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims

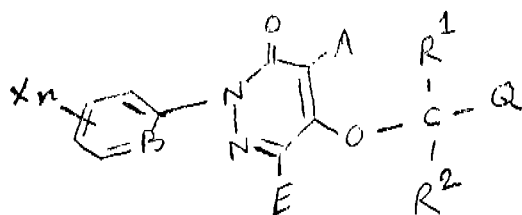
A process for producing a 3(2H)-pyridazinone derivative of the general formula (1) of the accompanying drawing wherein,

X represents a halogen, an alkyl having 1 to 6 carbon atoms, a haloalkyl having 1 to 4 carbon atoms, a haloalkoxy having 1 to 4 carbon atoms, nitro, an alkoxy having

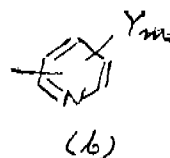
O

1 to 4 carbon atoms or —C—O—R

(wherein, R represents an alkyl having 1 to 4 carbon atoms);



(a)



(b)



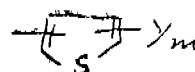
(c)



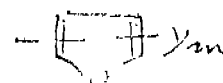
(d)



(e)



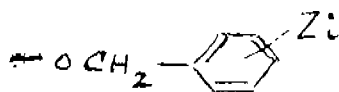
(f)



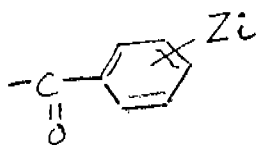
(g)



(i)



(j)



(K)



(L)



n is an integer of from 1 to 4;

A represents hydrogen, a halogen, an alkyl having 1 to 4 carbon atoms or an alkoxy having 1 to 4 carbon atoms;

B represents CX₁ (wherein, X₁ represents hydrogen or a halogen) or nitrogen;

R¹ and R² represent each independently hydrogen or an alkyl having 1 to 4 carbon atoms;

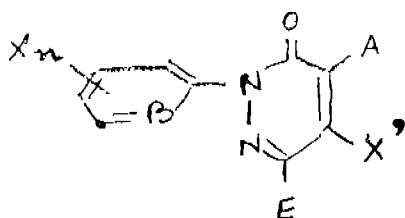
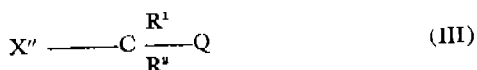
E represents hydrogen, a halogen, an alkoxy having 1 to 4 carbon atoms or hydroxyl; and

Q represents formula of (a) to (g) of the accompanying drawing.

wherein, Y represents a halogen, an alkyl having 1 to 6 carbon atoms, an alkoxy having 1 to 6 carbon atoms, a haloalkyl having 1 to 4 carbon atoms, haloalkoxy having 1 to 4 carbon atoms, cyano, (i), (j), (k) or (l) of formula I.

(wherein, Z represents a halogen, an alkyl having 1 to 4 carbon atoms, an alkoxy having 1 to 4 carbon atoms or a haloalkyl having 1 to 4 carbon atoms, and, is 0 or an integer of from 1 to 5, said Z being the same or different when is an integer of from 2 to 5); and m is an integer of from 1 to 5, said Y being the same or different when m is an integer of from 2 to 5), said X being the same or different when n is an integer of from 2 to 4. Which comprises reacting a compound of the general formula (II),

with a compound of the formula (III),



wherein,

R¹, R², A, B, E, X, Q and n are defined in the above and X' and X'' represent a halogen or QM (wherein, M represents hydrogen or an alkyl metal), provided that X'' represents OM when X' is a halogen and X'' represents a halogen when X' is OM.

as a solvent lower alcohols such as methanol and ethanol; ketones such as acetone and methylethyl ketone; hydrocarbons such as benzene, toluene and xylene; ethers such as isopropyl ether, tetrahydrofuran and 1,4-dioxane; amides such as N, N-dimethyl-formamide and hexamethyl phosphoric triamides; and haloogenated hydrocarbons such as dichloromethane and dichloroethane; as necessary, these solvents being able to be used as a mixture with water and

as a hydrogen halide-absorbing agent can be used inorganic bases such as sodium hydride, sodium hydroxide, potassium hydroxide, sodium carbonate, potassium carbonate and sodium bicarbonate; and organic bases such as sodium methoxide, sodium ethoxide, triethylamine and pyridine; as necessary, there being able to be added to the reaction system a catalyst such as tetraammonium salts (e.g., triethylbenzylammonium chloride) and

under the conditions that the reaction temperature ranges 20°C to the boiling point of the solvent to be used in reaction, preferably, the reacting temperature being in the range of from 5°C to the boiling point of the solvent used.

Compl. specn. 103 pages.

Drgs. 10 sheets

Int. Cl. : C 08 f 8/00.

164667

A PROCESS FOR THE PREPARATION OF CROSS-LINKED POLYMERIC COMPOSITIONS OF ETHYLENE AND OF AT LEAST ONE α -OLEFINE.

Applicant : SOCIETE CHIMIQUE DES CHARGONNAGES S.A., OF TOUR AURORÉ-PLACE DES REFLETS, F-92080 PARIS LA DEFENSE-CEDEX NO. 5, FRANCE.

Inventors : (1) ARMAND HAAS, (2) LIONEL GUERDOUX.

Application No. 4/Cal/1987 filed January 01, 1987.

Divisional of Application No. 703/Cal/83 dated 2nd June, 1983.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims

A process for the preparation of crosslinked polymeric compositions with improved properties, having a gel ratio between 95 to 99%, characterised by the action of a peroxide compound for example selected from benzoyl peroxide, dicumyl peroxide, 1, 2-bis-(tert.-butylperoxy- isopropyl)-benzene, ditert.-butylperoxide, ditert.-amyl peroxide, lauroyl peroxy peroxide and mixtures thereof, at a temperature of between 180°C and 250°C, and for a period of between 5 and 20 minutes, on copolymers of ethylene and of at least one α -olefine having from 3 to 12 carbon atoms, the said copolymers comprising from 0.5 to 10 mol % of units derived from the α -olefine, the said copolymers being modified introducing long chain branches in a manner such as herein described and in such a quantity that their measured limiting viscosity is comprised between 1, 3, and 10 times their limiting viscosity calculated from the molecular weight distribution, the peroxide compound being in an amount of 0.5 to 2.5 parts by weight for 100 parts by weight of the copolymers.

Compl. specn. 8 pages.

Drg. Nil

CLASS :

164668

14 Claims

Int. Cl. : F 16 k 7/00.

A VALVE.

Applicant : KLEIN, SCHIANZIN & BECKER AKTIEN-GESELLSCHAFT, OF POSTFACH 225, JOHANN-KLEIN-STRASSE 9, D-6710 FRANFTHAL (PFALZ), F. R. GERMANY.

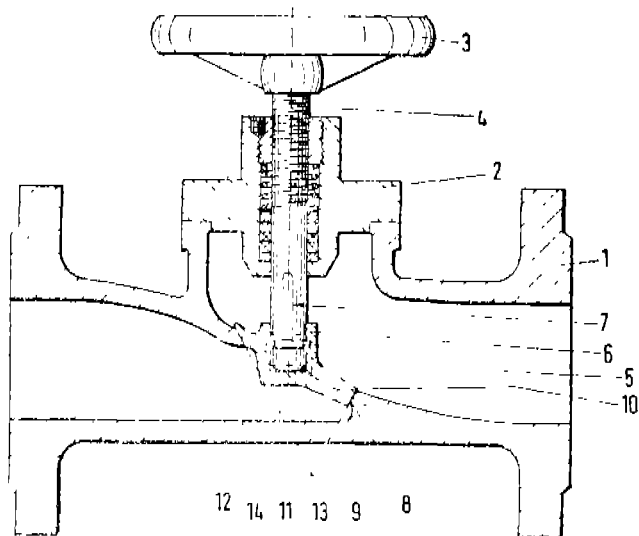
Inventors : (1) ALOIS ILLY, (2) GUNTER ALBERTI, (3) KARLHEINZ FEIERLEIN.

Application No. 67/Cal/87 filed January 21, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

A valve of the type comprising a valve member held by the stem of the valve and arranged inside the housing of the valve, wherein the valve housing has a seat area placed at an angle to the stem axis and the sealing face is tapered and conforms to a section representing an oblique section through the axis of a conical characterized in that line of action of the stem force intersects the seat area (10), as delimited by the sealing face (8), within a part which is further removed from the apex (13) of the conical body (9) than the point of intersection (14) of the seat area (10), delimited by the sealing face (8), with the axis (11) of the conical body (9).



Compl. specn. 12 pages.

Drgs. 8 sheets

CLASS : 47-C.

164669

Int. Cl. : C 10 b 25/00.

A FLEXIBLE DOOR FOR COKE OVENS.

Applicant : OTTO INDIA PRIVATE LIMITED, 9 CAMAC STREET, CALCUTTA-700 017, WEST BENGAL STATE, INDIA.

Inventors : MR. HORST WERNER KLEINERT.

Application No. 236/Cal/87 filed March 26, 1987.

Complete Specification left on 24th March, 1988.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

A flexible door for coke oven comprising :

door body (7) made from heat resistant alloy steel sheet;
heat shield (6) made from heat resistant alloy steel sheet,
the planes of said body and shield being substantially
in parallel disposition to each other;

common shafts (3) on which both said door body and
shield are mounted leaving a predetermined gap in-between
them, said gap being filled up with specially heat
resistant and heat-insulating materials and the annular
spaces between said door body (7) and shafts (3)
being provided with stuffing boxes (10), glands (11)
and gland packing materials (12);

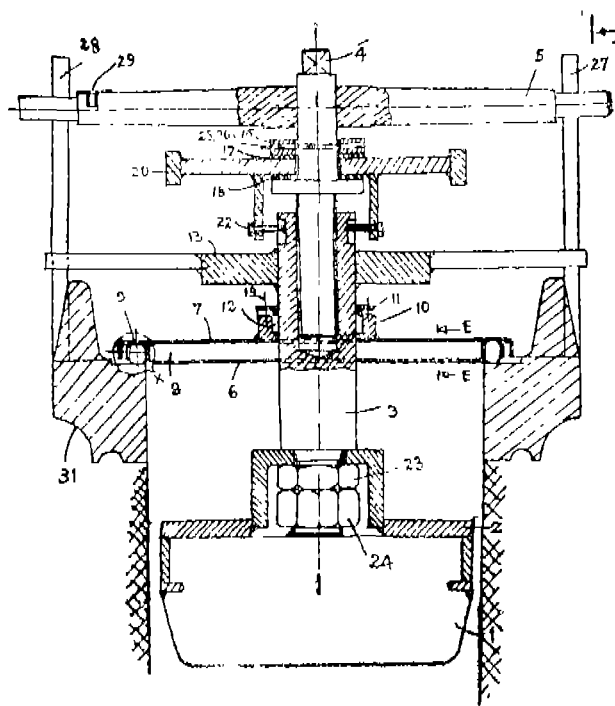
door seal (9) of soft, heat resistant materials;

door plug (1) made of fire clay bricks but of shorter
length compared with the conventionally used plugs, being
held in position by retainer (2) made of heat resistance
materials and attached to said shafts by means of
alloy steel fasteners (23, 24);

means comprising screws (4), loading plate (20) and
distribution assemblies (21) provided for applying the
predetermined pressure on said door body;

means comprising latches (5), hooks (27, 28) and
specially designed notch (32) provided on said hooks
for holding the door in position and preventing any
over-travel thereof; and

means comprising hooks (14, 15) and blocks (13) for
lifting the door.



Compl. specn. 13 pages.

Drg. Nil

Prov. specn. 8 pages.

Drg. 1 sheet

Int. Cl. : H 01 r 11/00.

164670

QUICK-CONNECT TERMINAL FOR CONNECTING ELECTRICAL CONDUCTORS TO ELECTRICAL EQUIPMENT.

Applicant : SIEMENS AKTIENGESellschaft. OF WITTELS-BACHERPLATZ 2, D-8000, MUNCHEN 2, WEST GERMANY.

Inventors : HEINZ, SEIDENBUSCH.

Application No. 275/Cal/87 filed April 06, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims

A quick-connect terminal for connecting electrical conductors to a bus bar of electrical equipment comprising :

a cover having a longitudinal channel with an opening at one end, an opening for entry of the equipment bus bar and funnels for entry of the electrical conductors, the longitudinal channel being arranged with respect to the bus bar entry opening such that the direction of bus bar entry is transverse to the longitudinal channel,

a conductor frame terminal assembly comprising a conductor frame extending around the conductors and having a thread for a terminal screw, a U-shaped pressure piece having first and second legs and a bridge connecting the legs, the terminal screw surrounded by the U-shaped pressure piece with the second leg of the pressure piece within the conductor frame, the terminal screw having a head guiding the first leg of the U-shaped pressure piece, the conductor frame terminal assembly being inserted into the opening of the longitudinal channel of the cover, and

means securing the assembly within the longitudinal channel of the cover in a snap-in manner.

Compl. specn. 10 pages.

Drgs. 2 sheets

CLASS : 176 J, 85 I.

164671

Int. Cl. : F 22 b - 21/26.

A MEMBRANE COIL BOILER WITH REVERSING FLUE FURNACE.

Applicant : THERMAX PRIVATE LIMITED, AN INDIAN COMPANY, CHINCHWAD, PUNE-411 019, MAHARASHTRA, INDIA.

Inventor : BALAKRISHNA GURURAJ BHAT.

Application No. 367/Bom/85 filed on Dec. 31, 1985.

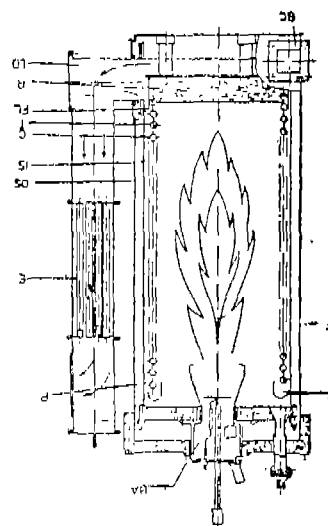
Complete after provisional left : Nov. 27, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

3 Claims

1. A membrane coil boiler with reversing flue furnace which includes a furnace body having membrane coil mounted therewithin, consisting steel tubes and steel flats wound helically to form a cylinder, said cylinder being closed at the bottom with refractory material, said tube having inlet and outlet for transmission of thermic fluid therethrough; a burner mounted in the said furnace body at the open end of the said cylinder, there being also provided a passage between the outer wall of the said membrane coil cylinder

and the inner wall of the furnace body for transmission of flue gases therethrough.



Compl. specn. 9 pages.

Prov. specn. 3 pages.

Drgs. 6 sheets

Drg. 1 sheet

CLASS : 13 D, 38.

164672

Int. Cl. : A 45 C - 13/20, F 05 B - 73/00.

AN IMPROVED SUITCASE, BRIEFCASE OR OTHER PIECE OF LUGGAGE.

Applicant : UNIVERSAL LUGGAGE MANUFACTURING CO., LTD., AN INDIAN COMPANY OF SHAH INDUSTRIAL ESTATE, SAKI-VIHAR ROAD, BUILDING 'B', BOMBAY-400 072, MAHARASHTRA, INDIA.

Inventor : KASHIVISWANATHA RAMAMURTHY.

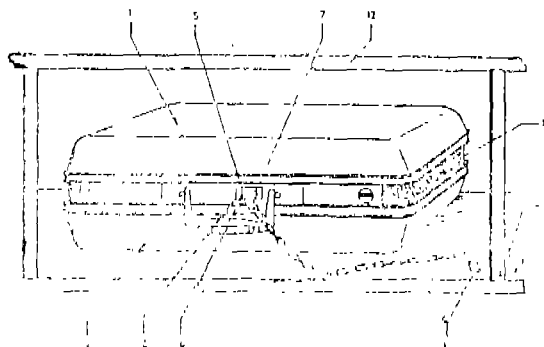
Application No. 100/Bom/86 filed on : March 19, 1986.

Complete After Provisional Left on : September 24, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972), Patent Office Branch, Bombay-400 013.

4 Claims

1. An improved suitcase, briefcase or other piece of luggage comprising a wirecord or chain, one end of which is provided with a knob, adapted to be inserted into a lock claimed in the applicants co-pending application No. 101/Bom/1986, fixed in the suitcase, briefcase or other piece of luggage and the other end of which is provided with holding devices such as wrist bands, knotting devices such as rings and/or other end is rigidly connected to the suitcase, briefcase, and the like, to enable the suitcase, briefcase or other piece of luggage to be temporarily affixed to the vehicles, carriers or a rigid structural member.



Provisional specn. 2 pages.

Compl. specn. 7 pages.

Drg. Nil

Drgs. 2 sheets

CLASS : 13 D [XL(1)], 117-A+B [LXIV(5)]. 164673
Int. Cl. : E 05 B - 65/00, 65/50, 73/00.

A LOCK.

Applicant : UNIVERSAL LUGGAGE MFG. CO., LIMITED, AN INDIAN COMPANY OF BUILDING 'B' SHAH INDUSTRIAL ESTATE, SAKI VIHAR ROAD, BOMBAY-400 072, MAHARASHTRA, INDIA.

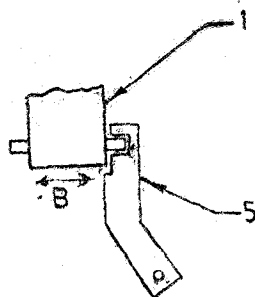
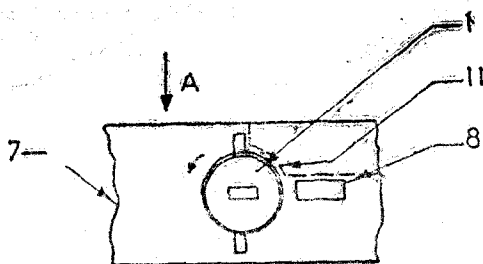
Inventor : KASIVISWANATHA RAMAMURTHY.

Application No. 101/Bom/1986 filed on March 19, 1986.
Complete after provisional left on September 24, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-13.

3 Claims

A lock having a cylindrical piece provided with levers therewithin capable of being operated by a key to be inserted into one end of the said cylindrical piece and adapted to move the said cylindrical piece in arcuate direction, said cylindrical piece being provided with a first flange for a locking piece within the lock body characterised in that the said cylindrical piece is provided with an additional flange and the locking body provided with an auxiliary hole for locking an auxiliary piece within the lock body simultaneously when the locking piece is being locked therewithin.



Provisional Specification 2 pages.
Compl. specn. 7 pages.

Drg. Nil
Drg. 1 sheet

CLASS : 152 F[XII(2)]. 164674
Int. Cl. : C 08 L 23/04, 25/06, 31/02.

A BINDER COMPOSITION FOR USE IN THE CALENDERING METHOD OF MANUFACTURING SINTERED THIN FLAT PIEZOELECTRIC CERAMIC ELEMENTS TO IMPROVE THE CALENDERING AND SINTERING PROPERTIES OF SUCH ELEMENTS.

Applicants : PEICO ELECTRONICS & ELECTRICALS LIMITED OF SHIVSAGAR ESTAGE, BLOCK 'A', DR. ANNIE BESANT ROAD, BOMBAY-400 018 MAHARASHTRA, INDIA.

Inventor : (1) NAGRAJRAO HEBBARE.

Application No. 113/Bom/1986 filed Apr. 2, 1986.
4-57 GI/89

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

2 Claims

A binder composition for use in the calendering method of manufacturing sintered thin flat piezoelectric ceramic elements, said composition comprising 5-9 parts ethylene vinyl acetate copolymer, 8-12 parts polystyrene, 4-6 parts plasticiser such as dioctyl phthalate and 70-100 parts chlorinated hydrocarbon solvent such as herein described.

Compl. specn. 8 pages.

Drg. Nil

CLASS : 55 E 4 [XIX(1)], 32 B [IX(1)]. 164675
Int. Cl. : A 61 - 27/00, C 07 C - 49/653, C 07 D - 311/00.

A PROCESS FOR THE PREPARATION OF NOVEL PHARMACOLOGICALLY ACTIVE 7-ACYLOXY-6-AMINOACYLOXY-POLYOXYGENATED LABDANES DERIVATIVES.

Applicant : HOECHST INDIA LIMITED, OF HOECHST HOUSE, NARIMAN POINT, 193 BACKBAY RECLAMATION, BOMBAY-400 021, MAHARASHTRA, INDIA, AN INDIAN COMPANY.

Inventors : 1. DR. YATENDRA KHANDELWAL 2. RAMANUJAM RAJAGOPALAN, 3. DR. ALIHUSSEIN NOMANBHAI DOHADWALLA, 4. DR. NOEL JOHN DE SOUZA, 5. DR. RICHARD HELMUT RUPP.

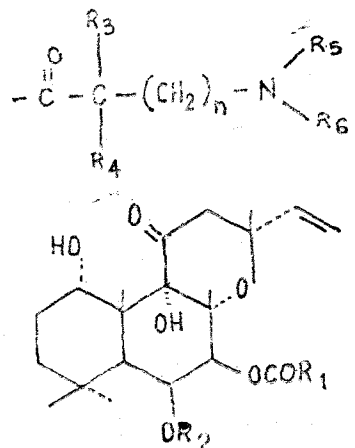
Application No. 133/Bom/86 filed on Apr. 29, 1986.

Complete after provisional left on : Jun. 26, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

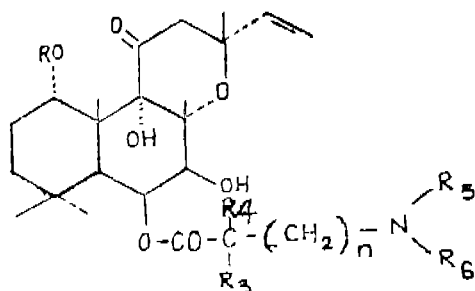
2 Claims

1. A process for the preparation of novel pharmacologically active polyoxygenated labdane derivatives of the formula I of the drawings accompanying the provisional specification, wherein R_1 stands for a straight chain or branched chain C-C₂₀ alkyl groups, optionally substituted by one of more hydroxy or halogen groups and R_2 stands for the group shown in Fig. 1 of the drawings accompanying the provisional

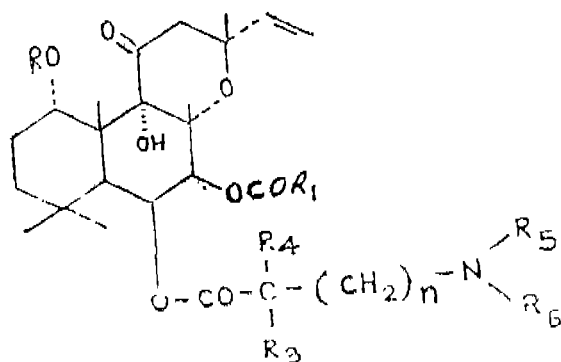


specification, wherein R_2 and R_4 which may be the same or different stand for hydrogen or alkyl or aryl group, 'n' stands for integer 0 to 10, R_5 stands for hydrogen when R_6 stands for hydrogen, alkyl, substituted alkyl, cycloalkyl, aralkyl, aryl, heterocycles, amino, substituted amino, hydroxy, acyl, dialkylamino alkyl, carbamyl, carboxyalkyl, carbalkoxyalkyl, when R_5 and R_6 are the same they stand for alkyl substituted alkyl, aryl, aralkyl, when R_5 stands for alkyl group, R_6 stands for substituted alkyl, cycloalkyl, aralkyl, dialkylaminoalkyl group, when R_5 and R_6 together with the nitrogen atom to which they are attached stand for a heterocycle it

may contain one or more hetero atom is optionally substituted at one or more places by alkyl, aralkyl, hydroxyalkyl, aryl, hydroxy or other heterocyclic groups and pharmaceutically acceptable salts thereof, said process comprises reacting a compound of the formula II of the drawings accompanying the provisional



specification, wherein R stands for group used for the protection of hydroxyl group such as t-butyl-dimethylsilyl, methoxyethoxymethyl or methoxymethyl and groups R_1 , R_2 , R_3 , R_4 and n have the same meaning as described above. with a mixture of an organic acid such as herein described, dicyclohexylcarbodiimide and 4-dimethylaminopyridine in an anhydrous organic solvent such as ethyl acetate at temperatures ranging from 20–30°C, isolating the resulting compound of the formula III shown in



the drawings accompanying the provisional specification. R_1 , R_2 , R_3 , R_4 , R_5 , R_6 and n wherein R_1 , R_2 have the same meaning as above, by treating the reaction mixture with excess of acetic acid, separating the ethylacetate layer, washing it with water and saturated sodium bicarbonate solution, drying it over anhydrous sodium sulphate and concentrating the ethyl acetate layer, and deprotecting the hydrogen group at position one of the compound of the formula III shown in the drawings accompanying the provisional specification, in known manner to obtain the compound of the formula I.

Provisional specification 25 pages

Drgs. 3 sheets

Compl. specn. 35 pages.

Drg. 1 sheet

CLASS : 5 D, 150 C.

164676

Int. Cl. : A 01 g - 25/00, B 05 B - 1/00, F 16 L - 37/00 & 47/00.

A COUPLER FOR PLASTIC SPRINKLER IRRIGATION SYSTEM.

Applicant : POLYOLEFINS INDUSTRIES LIMITED AN INDIAN COMPANY INCORPORATED UNDER COMPANY'S ACT, 1956 11TH FLOOR, MAFATLAL CENTRE, NARIMAN POINT, BOMBAY-400 021. MAHARASHTRA INDIA.

Inventors : (1) MOHINDER SINGH DATT. (2) SHRIDHAR VADIRAJACHAR TAMBRAPARNI.

Application No. 203/Bom/1986 filed on 23rd Jul. 1986.

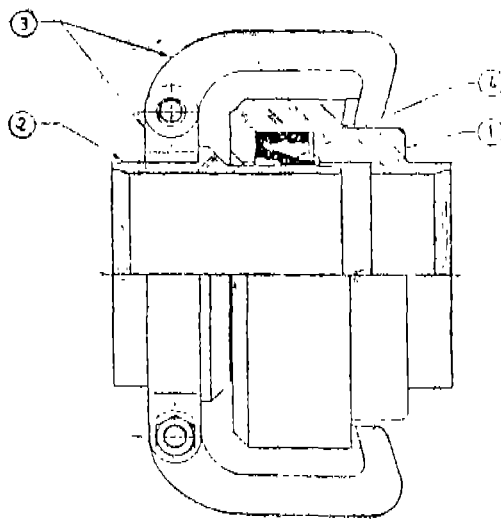
Appropriate office for opposition proceedings (Rule Patents Rules, 1972) Patent Office, Bombay Branch.

2 Claims

A coupler for plastic sprinkler irrigation system comprising :

a female member, a male member, a clamping device and a sealing means, the said female member consisting of a straight water inlet end to be welded at one end of a plastic pipe, bend, tee or the like pipe fitting, a stepped out portion forming arrester for limiting the movement of the male member inside the female member, a groove for allowing pressurised water flow into the sealing means, another stepped out portion for accommodating the sealing means, on outlet end for insertion of the male member therethrough, an outer stepped portion for seating the hold portions of the said clamping device;

the said male member consisting of a water inlet end being inserted inside the female member on assembly, and outlet end to be welded at the other end of the pipe and a shoulder in between the inlet end and the outlet end for arresting the movement of the clamping device mounted on the portion of the male member between the said outlet end welded to the pipe and the said shoulder, the said clamping device consisting of a pair of clamps and two latch pieces fixed at the flat ends of the said clamps with the help of nut bolts and washers or the like fastening means, the free ends of the latch piece having hold portions which sits on the said outer stepped portion of the female member to resist longitudinal movements of the assembled components and the said sealing means consists of a V-shaped rubber gasket placed inside the stepped out portion adjacent the outlet end of the female member.



Compl. specn. 5 pages.

Drgs. 4 sheets

CLASS : 24 D, [LV], 134 D [LIX(3)].

164677

Int. Cl. : B 60 F - 11/20.

IMPROVED HYDRAULIC SAFETY BRAKE SYSTEM FOR AUTOMOBILES AND THE LIKE TRANSPORT VEHICLES

Applicant & Inventor : DIWAKAR MAHADEV JOSHI, AN INDIAN CITIZEN, 15, SHYAM BHUVAN, GOKHAL ROAD, MULUND (EAST), BOMBAY-400 081, MAHARASHTRA, INDIA

Application No. 295/Bom/1986 filed on 16th October, 1986.

Complete after provisional left on 13th February, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

6 Claims

An improved hydraulic safety brake system for automobiles and the like transport vehicles comprising a master cylinder body having a pair of barrels respectively forming a front and rear barrel, each having an inlet a liquid pressure valve assembly and an outlet connected to respective piping circuits of front and rear hydraulic brake system, each of said barrel having different type of piston and piston push rod assembly with different displacement valves characterised in that one of the two master cylinders is provided with a delayed action piston herein described so that when brake pedal is actuated the driving wheels connected to that cylinder are initially braked under mild pressure and subsequently under hard pressure all four wheels are brake locked.

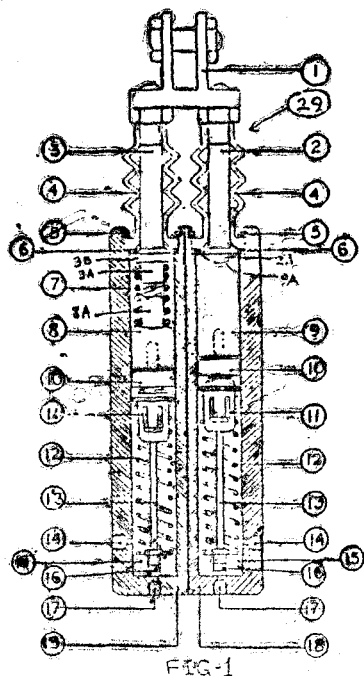


FIG-1

Provisional Specification 3 pages.

Drg. Nil

Compl. specn. 13 pages.

Drgs. 6 sheets

CLASS : 136 B + E [XIII].

164678

Int. Cl. : B 29 c - 41/06, 41/22.

METHOD OF MOULDING CONTAINERS MADE OF PLASTICS MATERIALS, HAVING MULTI-COLOURED LAYERS.

Applicants : ROTOMOULD (INDIA), VIJAY INDUSTRIAL ESTATE PVT. LTD., PADRA ROAD, SAMIALA-301410, GUJARAT, INDIA. A REGISTERED INDIAN PARTNERSHIP FIRM OF WHICH THE PARTNERS ARE —YOGESH MANUBHAI VAKHARIA, BHARAT MANUBHAI VAKHARIA, NAINA DARENDRA VAKHARIA, AHT KASTURCHAND SHAH, AND JAGADISH KASTURCHAND SHAH.

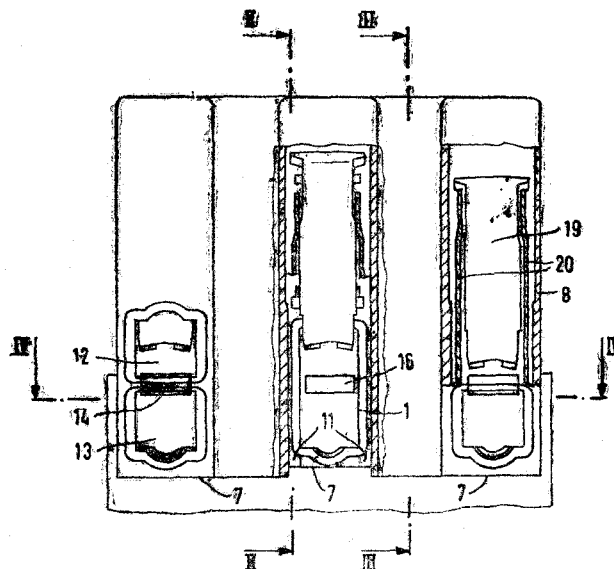
Inventor : YOGESH MANUBHAI VAKHARIA.

Application No. 332/Bom/1986 filed on Dec. 2, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, Bombay-400 013.

11 Claims

1. A method of moulding containers made of plastics materials having multi-coloured layers, comprising introducing a moulding powder of a plastics material having selected colour into a mould, heating the mould and at the same time rotating the mould about two mutually perpendicular axes till the said powder melts and forms a layer within the mould, stopping the rotation of the mould, introducing a moulding powder of a plastics material having a different colour, rotating the mould simultaneously about the two axes while it is heated till the second moulding powder melts and forms a second layer over the first layer, repeating the above steps each time with a moulding powder having a selected colour, till a container having the predetermined number of layers are formed, cooling the mould and stripping off the container from the mould.



Compl. specn. 9 pages.

Drgs. 2 sheets

CLASS : 195 C.

164679

Int. Cl. : F 16 K - 3/10.

AN IMPROVED GATE VALVE.

Applicant & Inventor : HOMI FRAMROZ MANEKSHA, AN INDIAN NATIONAL OF FLAT 12 (13) 2ND FLOOR, BANAJI HOUSE, CONTRACTOR BAUG, MORI ROAD, MAHIM, BOMBAY-400016, MAHARASHTRA, INDIA.

Application No. 138/Bam/87 filed on Apr. 20, 1987.

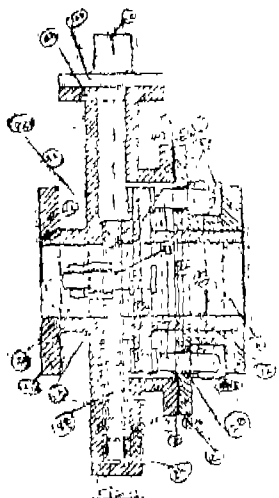
Complete after provisional left on Dec. 16, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

4 Claims

1. An improved gate valve for opening and shutting off flow in a pipe line connection, said valve comprising of independent split-up hollow two bodies namely main body and auxiliary body held together face to face with leak proof gasket joint in-between with a pair of oppositely disposed ports with their respective main flanges at the outer ends respectively and oval shaped blank-cum-spectacle plate mounted

hanging vertically in the hollow vertical rectangular space in main body attached with a movable support spindle at its top end and means for operating said plate with said attached spindle, so that the said oval shaped combination of blank-cum spectacle plate can be raised or lowered to lie transversely between said pair of oppositely disposed ports; a hollow bush with flange at its inner end located inside auxiliary body at one end of the said pair of oppositely disposed ports and in sliding contact with the inner wall of Auxiliary body thereof; means for axially sliding said hollow bush inside said auxiliary body side port either inwardly or outwardly.



Prov. specn. 7 pages.

Drg. 1 sheet

Compl. specn. 9 pages.

Drgs. 2 sheets

CLASS : 32 F 2 b + 55 E 4.

164680

Int. Cl. : A 61 K 31/35, C 07 D 311/00, 311/02.

A PROCESS FOR THE PREPARATION OF NOVEL WATER SOLUBLE POLYOXYGENATED LABDANE DERIVATIVES AND PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF.

Applicant : HOECHST INDIA LIMITED OF HOECHST HOUSE, NARIMAN POINT, 193, BACKBAY RECLAMATIONS BOMBAY-400021, MAHARASHTRA, INDIA.

Inventors : (1) DR. YATENDRA KHANDELWAL, (2) RAMANAJAM RAJAGOPALAN, (3) DR. ALIHUSSEIN NOMANBHAI DOHADWALA, (4) DR. NOEL JOHN DE SOUZA (5) DR. RICHARD HELMUT RUPP.

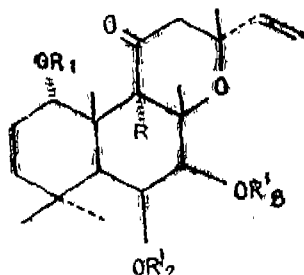
Application No. 70/Bom/88 filed on Mar. 18, 1988.

Divisional to Application No. 122/Bom/85 dt. 3-5-1985.

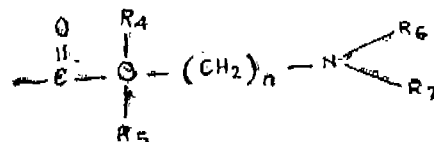
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

3 Claims

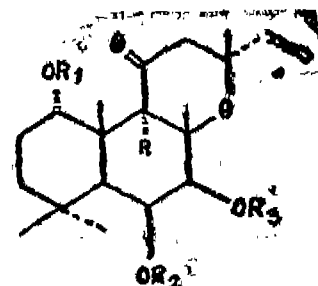
A process for the preparation of novel water soluble polyoxygenated labdane derivatives of the formula 1A shown in the accompanying drawings,



wherein R stands for hydrogen or hydroxyl group, R₁ is hydrogen or the group shown in Fig. 1 of the accompanying drawings,



wherein R₄ and R₅ which may be the same or different stand for hydrogen or alkyl or aryl group, n stands for integer 0 to 10, R₆ stands for hydrogen when R₇ stands for hydrogen, alkyl, substituted alkyl, cycloalkyl, aralkyl, aryl, heterocycles, amino, substituted amino, hydroxyl, acyl, dialkyl, aminoalkyl, carbamyl, carboxylalkyl, carboalkoxylalkyl, when R₆ and R₇ are the same may stand for alkyl, substituted alkyl, aryl, aralkyl, when R₆ stands for alkyl group R₇ stands for substituted alkyl, cycloalkyl, aralkyl, dialkylaminoalkyl group, when R₆ and R₇ together with the nitrogen atom to which are attached stand for a heterocycle it may contain one or more hetero atoms and is optionally substituted at one or more places by alkyl, aralkyl, hydroxyalkyl, aryl, hydroxy or other heterocyclic groups, R₂ stands for the group of Fig. 1 aforesaid and R₃ stands for hydrogen and pharmaceutically acceptable salts thereof, said process comprises reacting a compound of the formula I shown in the accompanying drawings,



wherein R and R₁ are as defined above, R₂ is hydrogen and R₃ is the group of Fig. 1 aforesaid with a base such as herein described in the presence of a solvent such as herein described and isolating and purifying the compound of the formula 1A from the reaction mixture in a known manner such as herein described, and, if desired, converting the compound of the formula 1A into its pharmaceutically acceptable salts in a known manner.

Compl. specn. 28 pages.

Drgs. 3 sheets

REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. Nos. 160205 & 160206. Minestrock, of a proprietary concern of Radhey Vallabh Co-op. Hsg. Society Ltd., Flat No. 43, 4th Floor, French Bridge Corner, Opera House, Bombay-400 004, State of Maharashtra, India. "A cross inside Diamond". 3rd October, 1988.

Class 1. No. 160221. M. K. Industries, 8068, Bara Hindu Rao, Delhi-110006, Union Territory of Delhi, India. "Lock for use in suit case/brief case or Typewriter". 6th October, 1988.

Class 1. No. 160219. Talcharkars Private Limited, (a Company incorporated under the provisions of Companies Act) at pushpa Kunj, Palkhi Wadi, of

- Kashinath Dhuru Road, Prabhadevi, Bombay-400 028, State of Maharashtra, India. "Display System". 6th October, 1988.
- Class 3. No. 160122. M/s. Arise Pharamaceuticals, Krishna Collage Co. op. Housing Society, Room No. 10, 1st floor, Dattapada Cross Road No. 2, Borivli (East) Bombay-66, State of Maharashtra, India, an Indian Partnership firm. "Inhaler". 16th September, 1988.
- Class 3. No. 160207. Utkarsh Brush Works, Adarsh Industrial Estate, 235, 2nd Floor, Sahar Road, Cal-Andheri (East), Bombay-400 099, State of Maharashtra, India, a Proprietary concern. "A Multi-Purpose Cleaning Brush". 3rd October, 1988.
- Class 3. No. 160211. Ram Singh, Proprietor (an Indian national), trading as Indo-Burma Glass & Plastic Works, S. No. 13/46 A-1, Sarnath, Varanasi U.P. India. "2 Eyes". 4th October, 1988.
- Class 3. No. 160212. Anand Traders, 52—54, Kaushalya Bhawan, Sadar Bazar, Delhi-6, India, an Indian Partnership firm. "Pen". 4th October, 1988.
- Class 3. No. 160213. Anand Innovative Plastic Industries, 26-27 Laxmi Cloth Market, Pindi Street, Ludhiana (Punjab), India, an Indian Partnership Firm. "Pen". 4th October, 1988.
- Class 3. No. 160214. Richard Norman Sutton, a British Subject, of 10 Angel Hill Drive, Sutton, Surrey SMI 3BX, England. "a Portable Electronic Counting device". Reciprocity date is 5th April, 1988. (U.K.).
- Class 3. No. 160390. The Procter & Gamble Company, a corporation organised under the laws of the State of Ohio, United States of America, of one procter & Gamble Plaza, Cincinnati, State of Ohio United States of America, manufacturers. a "Measuring Beaker". 15th November, 1988.
- Class 3. No. 160462. Interlego A.G., a Swiss Company of Sihlbruggstrasse 3, CH-6340 Baar, Switzerland. a "Toy Palm". 29th November, 1988.
- Class 3. No. 160464. Interlego A.G., a Swiss Company of Sihlbruggstrasse 3, CH-6340 Baar, Switzerland. a "Toy Figure". 29th November, 1988.
- Class 3. No. 160466. Interlego A.G., a Swiss Company of Sihlbruggstrasse 3, CH-6340 Baar, Switzerland, a "Toy Monkey". 29th November, 1988.
- Class 3. No. 160467. Interlego A.G., a Swiss Company of Sihlbruggstrasse 3, CH-6340 Baar, Switzerland, a "Toy Shark". 29th November, 1988. . .
- Class 3. No. 160470. Interlego A.G., a Swiss Company of Sihlbruggstrasse 3, CH-6340 Baar, Switzerland, a "Toy Truck". 29th November, 1988.
- Class 3. No. 160471. Interlego A.G., a Swiss Company of Sihlbruggstrasse 3, CH-6340 Baar, Switzerland, a "Toy Octopus". 29th November, 1988.
- Class 3. No. 160472. Interlego A.G., a Swiss Company of Sihlbruggstrasse 3, CH-6340 Baa., Switzerland. a "Toy Fish". 29th November, 1988.
- Class 3. No. 160532. Geep Industrial Syndicate Limited, of 28 South Road, Allahabad, U.P., India, an Indian Company. a "Pocket Torch with Clip". 9th December, 1988.
- Class 3. Nos. 160717 & 160718. Rannyware Industries, 3C/239, N.I.T. Faridabad (Haryana), India, a Proprietorship firm. "Plate". 14th February, 1989.
- Class 8. No. 160313. Taj Mehal Collection, Chauri Road, Bharohi 221401, Dist. Varanasi, (U.P.), India. "Carpet". 25th October, 1988.
- Class 8. Nos. 160314 & 760315. Kohinoor Woollen Carpet Industries, Village Chatampur, P. O. Auria, Dist. Varanasi (U.P.), India. "Carpet". 25th October, 1988.
- Class 8. Nos. 160316 to 160320. Popular Carpet Industries, Village : Mednipur, Post : Maharajganj, Dist : Varanasi (U.P.), India. "Carpet". 25th October, 1988.
- Class 12. No. 160498. Janta Traders, a Sole Proprietary concern, at Shop No. 7, Jesuit House, Near Municipal Garden, Panjim, Goa, India. "Soap". 2nd December, 1988.

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